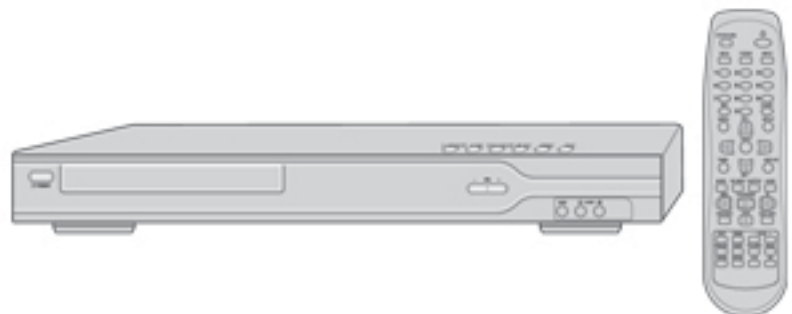


# Service Manual

< DVD Recoder >

**Model :** DW-Q73D2D-HA  
DRX-2105/DRX-1105/DR-2100P  
DR-2101/DRX-2102E/DRX-2105S  
DRX-2105SW/DRX-2105E/DRX-2105A  
DRX-1105K/DRX-1205K/DRX-1105D/DRX-1101A



✓ **Caution :**

In this Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service Information Center.

---

## CONTENTS

---

SPECIFICATIONS.....	2
BLOCK DIAGRAM.....	8
SCHEMATIC DIAGRAM .....	17
WAVEFORMS .....	34
DISASSEMBLY .....	40
TROUBLE SHOOTING .....	41
PCB CIRCUIT BOARD .....	52
ELECTRICAL PARTSLIST .....	59

# SPECIFICATIONS

**DVD Recorder Specification Sheet(Preliminary)**

REGION(SALES AREA)		EUROPE		Remarks
BUYER		DRX-2105		
MODEL(BUYER)		MTK/SONY TRAVERSE		
MAIN SOLUTION				OPTION
Broadcast System (TV System)	NTSC PAL PAL-M/NTSC PAL-N/NTSC	X O X X		
DVD-RECORDER SPECIFICATION				
Regional Code	Region Code	2		
Playable Disc Format	DVD (PAL)	O		
	DVD (NTSC)	O		
	AUDIO-CD(CD-DA)	O		
	CD-R/-RW	O		
	MP3 Decoding	O		
	MP3 ID3 Tag	X		
	DVD+R/+RW	O		
	DVD-R/-RW(Video Mode)	O		
	DVD-RAM	X		
	VIDEO-CD(2.0)	O		
	SVCD	O		
	WMA	X		
	WMV	X		
	JPEG	O		
Kodak Picture CD	X			
DivX	O			
DVD-Audio	X			
SACD	X			
HDCD	X			
Recordable Disc	DVD R/ RW	O		
	DVD-RAM	X		
	CD-R/-RW	X		
GUI	Graphic User interface	O		
	Graphic User interface(Speaker Setup) Language Initial Language	X 15 Languages English		
		VCR/DVD Unified UI		
		E/F/S/POR/I/G/D/H/R/NOR/SW/DAN/FIN/SWE/CZE		

## DVD Recorder Specification Sheet(Preliminary)

REGION(SALES AREA)					
BUYER			EUROPE		
MODEL(BUYER)			DRX-2105		
MAIN SOLUTION			DAEWOO DESIGN		
Record Mode	4,7 Giga Disc	HQ(60 min) SP(120 min) EP(240 min) SEP(480 min)	<div>O O O O</div>		
VIDEO	Video DAC Progressive scan		8bit <div>O</div>		
AUDIO	Audio DAC 2CH Downmixed Audio Out Karaoke Virtual surround sound dts Support(DTS pass through) dts Decoding Dolby Digital Decoder Built in		96 kHz / 24 bit <div>O X O O O X O</div>		
File Management & Editing	Menu Display	Thumbnail(Title)	<div>O</div>		
	Title (append, divide, erase)	Thumbnail Change Append Divide Erase	<div>O O X O O</div>		
	Auto Chapter Making(OFF, 5min, 10min, 15min)		<div>O</div>		
	Manual Chapter Making / Delete chapter mark		<div>O</div>		
	Chapter hide / unhide		<div>O</div>		
	Editing Title Name		<div>O</div>		
	Playlist/Playlist Name		<div>O</div>		
	Protecting Disc(On/Off)		<div>X O</div>		
			Not supported to DVD+R, -R, and -RW after finalization		
			Not supported to DVD+R, -RW after finalization		
			Not supported to DVD+R, -R and -RW after finalization		
			Not supported to DVD+R, -R, and -RW after finalization		
			Not supported to DVD+R, -R, and -RW after finalization		
			Not supported to DVD+R, -R, and -RW after finalization		
			Not supported to DVD+R, -R, and -RW after finalization		

DVD Recorder Specification Sheet(Preliminary)

REGION(SALES AREA)		EUROPE		Remarks
BUYER		DRX-2105		
MODEL(BUYER)		DAEWOO DESIGN		
MAIN SOLUTION				
Convenience	Zoom		O	VCD 2.0 Only
	Marker		X	
	Marker search		X	
	Closed Caption		X	
	Resume		O	
	Initial Logo		O	
	Screen Saver		X	
	Parental Lock		O	
	Subtitle Still		O	
	Auto Play		O	
	Program Play (Favorite Program)		X	
	Random Play		O	
	PBC On/Off		O	
	x2 Audio(Digest)		X	
	JPEG Play w/ MP3 Play		X	
	x2 Soft scan		X	
	Scan(Fwd/Rev)		O	
	Slow(Fwd)		O	
	Slow(Rev)		O	
	Time Shift(Play & Rec)		X	
	EPG		X	
DV Camcorder Control		O		
Repeat Play Mode		O		
	Chapter / Title / Track	O	CD-DA(Track)/DVD	
	All	O	CD-DA	
	A-B	O		
Initialize	DVD± R	O	about 30 sec	
	DVD±RW	O	about 30 sec	
Finalize	DVD±R,-RW	O	By menu	
	DVD±RW	X	compatible without finalization	

DVD Recorder Specification Sheet(Preliminary)

REGION(SALES AREA)		EUROPE		Remarks
BUYER		DRX-2105		
MODEL(BUYER)				
MAIN SOLUTION		DAEWOO DESIGN		
OTHER SPECIFICATION				
	Timer Record		8PGM/1Y	30min (Max 8Hr)
	OTR(One touch Timer Record)		O	
	Function OSD On/Off		O	
	CM Skip(30sec Skip)		X	
	VCR Plus+		O	Option
	ACSS(Auto Clock Setting System)		O	Auto Setup
	Tuner No Signal		O	Warning message
	Back-up		under 5second	
	Child Lock		O	Power Off Mode
	Auto Dimmer		O	

DVD Recorder Specification Sheet(Preliminary)

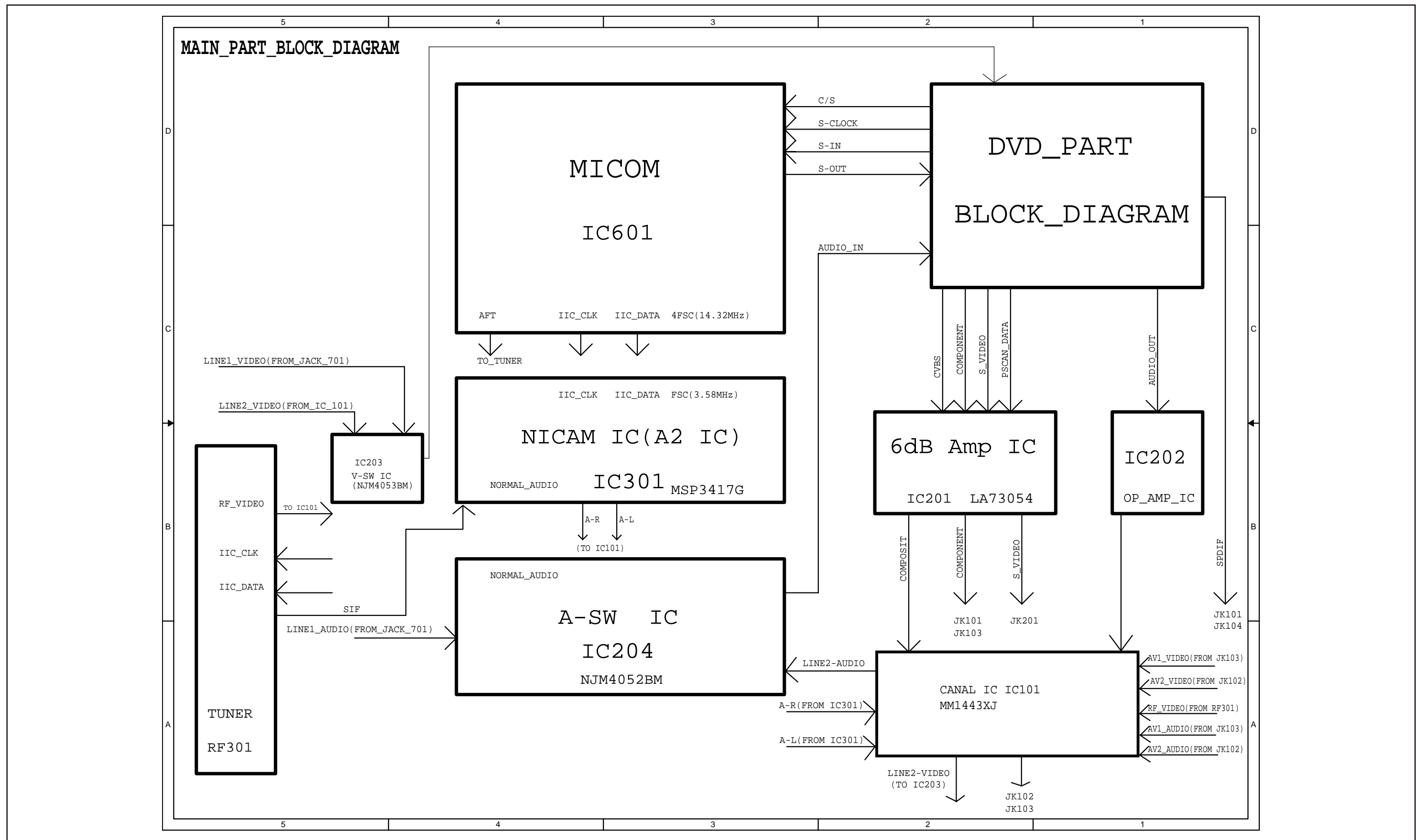
REGION(SALES AREA)		EUROPE	Remarks
BUYER		DRX-2105	
MODEL(BUYER)		DAEWOO DESIGN	
MAIN SOLUTION			
Front panel	Tool no Display Power On/Off Open/Close Play/Pause Stop PREV NEXT REC Channel Up Channel Down Front AV input S-Video input PCMCIA Multi Memory Card Slot USB DV Terminal(Input, 1394)	LED O O O O O O O O O X X X X O	Option
Rear Panel	Analog Audio Out Analog Audio Input Dolby Digital 5.1 ch Out Digital Audio Out Digital Audio Input Video out Optical Coaxial Optical Coaxial Composite S-Video Component RCA type(Y/Pb/Pr) Component Pair Analog Audio Out	X X X X O X X X X O O X	
			DVD&VCR Option

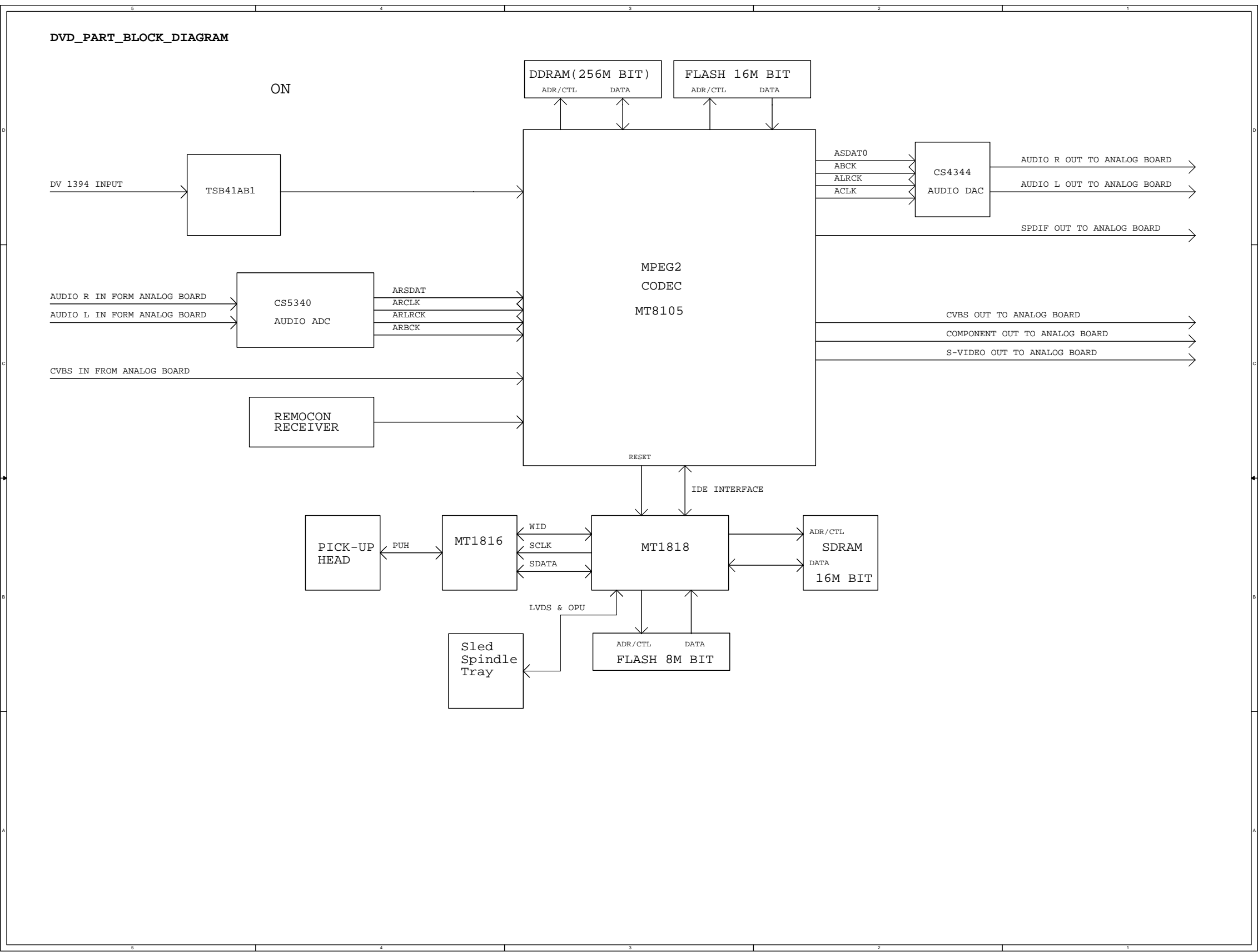
## DVD Recorder Specification Sheet(Preliminary)

REGION(SALES AREA)		EUROPE	Remarks
BUYER		DRX-2105	
MODEL(BUYER)		DAEWOO DESIGN	
MAIN SOLUTION			
Digital Video Out	DVI	X	
	HDMI	X	
	IEEE1394	X	
Video Input	Composite	X	
	Component RCA type(Y/Pb/Pr)	X	
Scart 1 (Composite/RGB Switchable)		O	
Scart 2 (By-pass)		O	
RF CH Switch		X	
RF In		O	
RF Out(Modulator Out)		X	
RCU	Tool Type Shuttle/Illumination	normal	
Bundle Disc(DVD+RW)		X	
AV RCA Cable		O	
Scart Cable		X	
Coaxial Cable		O	
Optical Cable		X	
S-Video Cable		X	
RF Cable		O	
Battery(Size "AAA")		O	
Owners Manual Language		English	
Box Color			
Power	Narrow Wide SMPS	AC100-240V,50/60Hz X	
Power Off Consumption		4W	
Power Consumption		23W	
Dimension	Set (WXHxD) Box (WXHxD)	420x43x308	
Weight	Net Gross	Aprox. 3.27kg Aprox. 4.17kg	

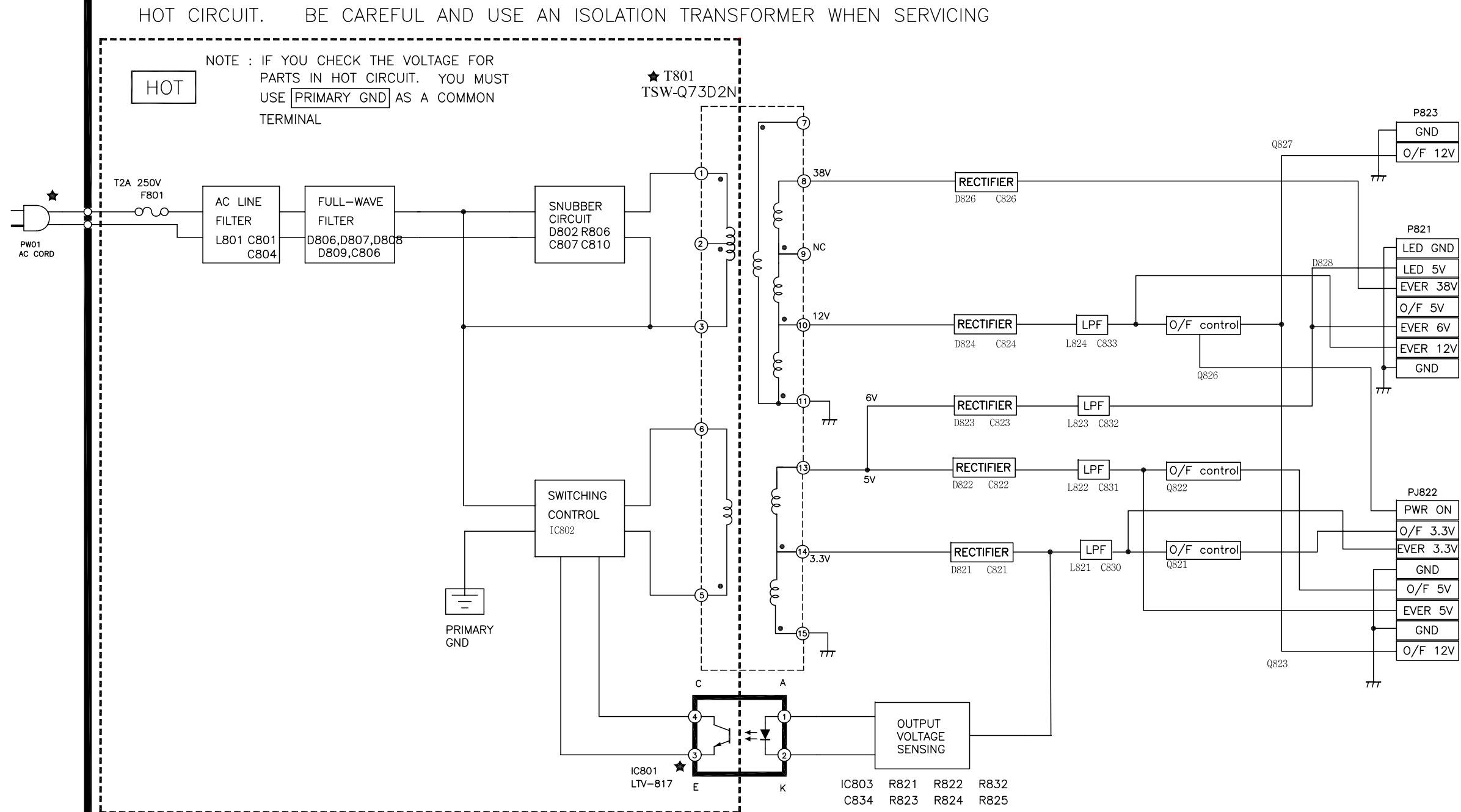


# BLOCK DIAGRAM

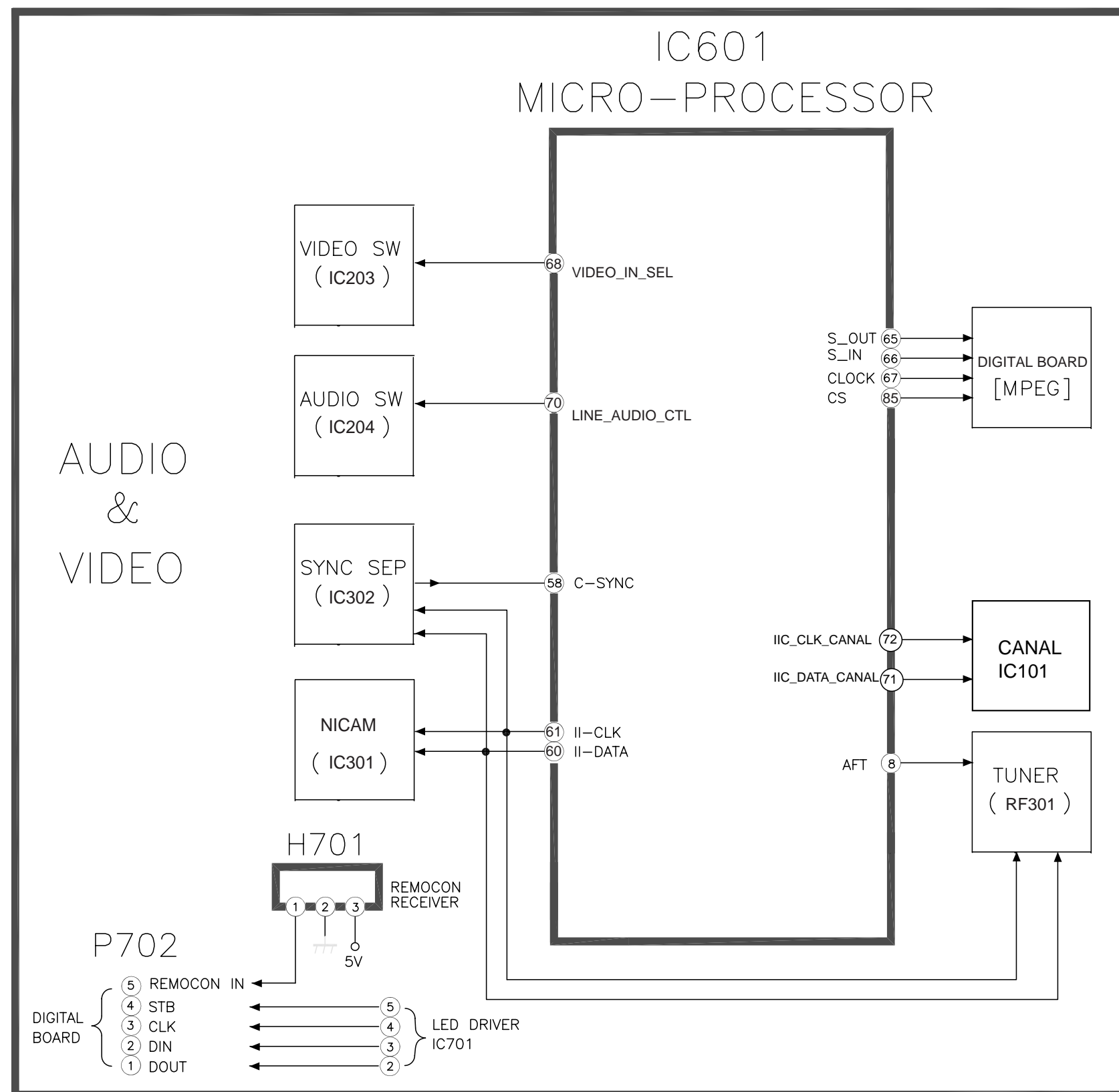




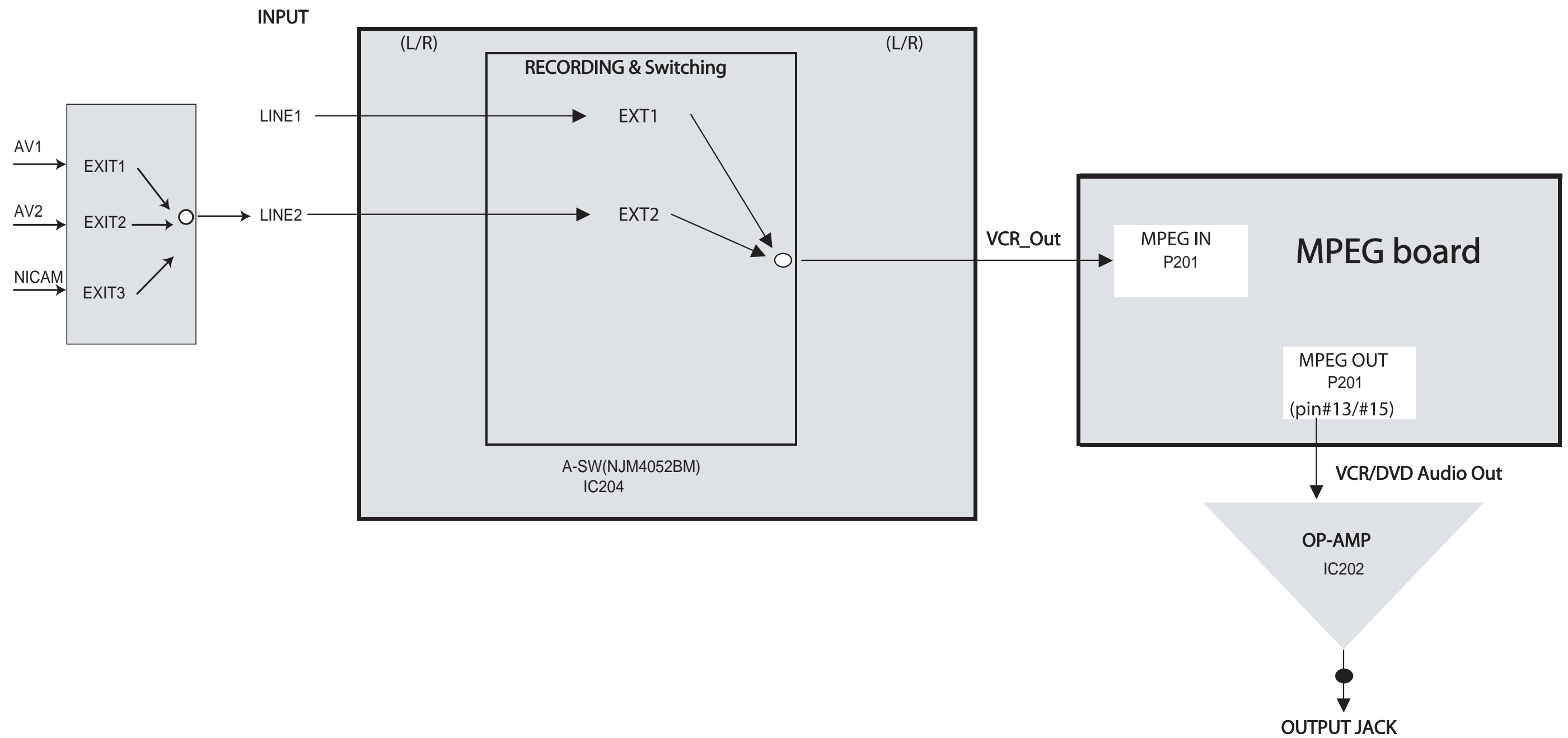
POWER SUPPLY BLOCK DIAGRAM

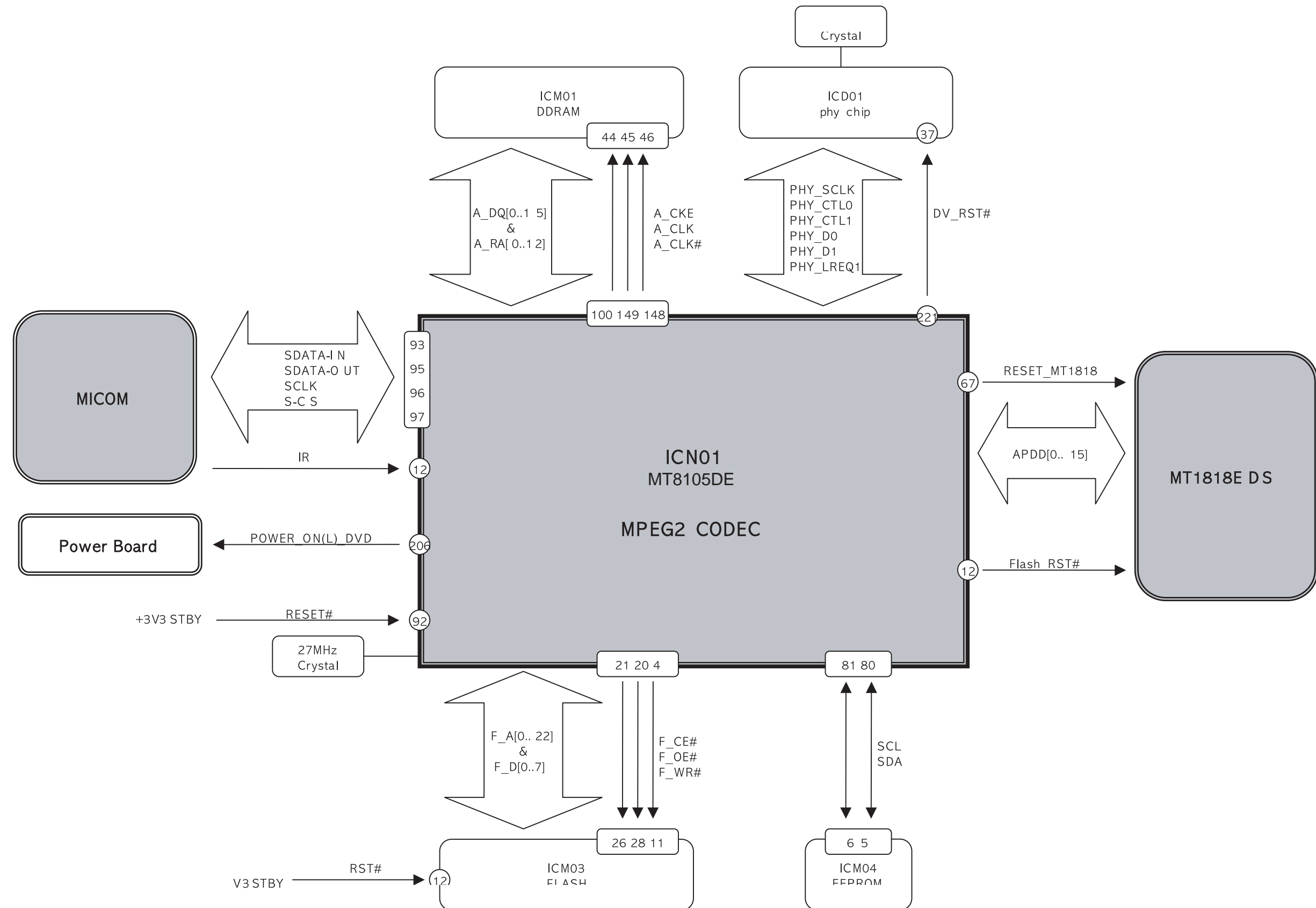


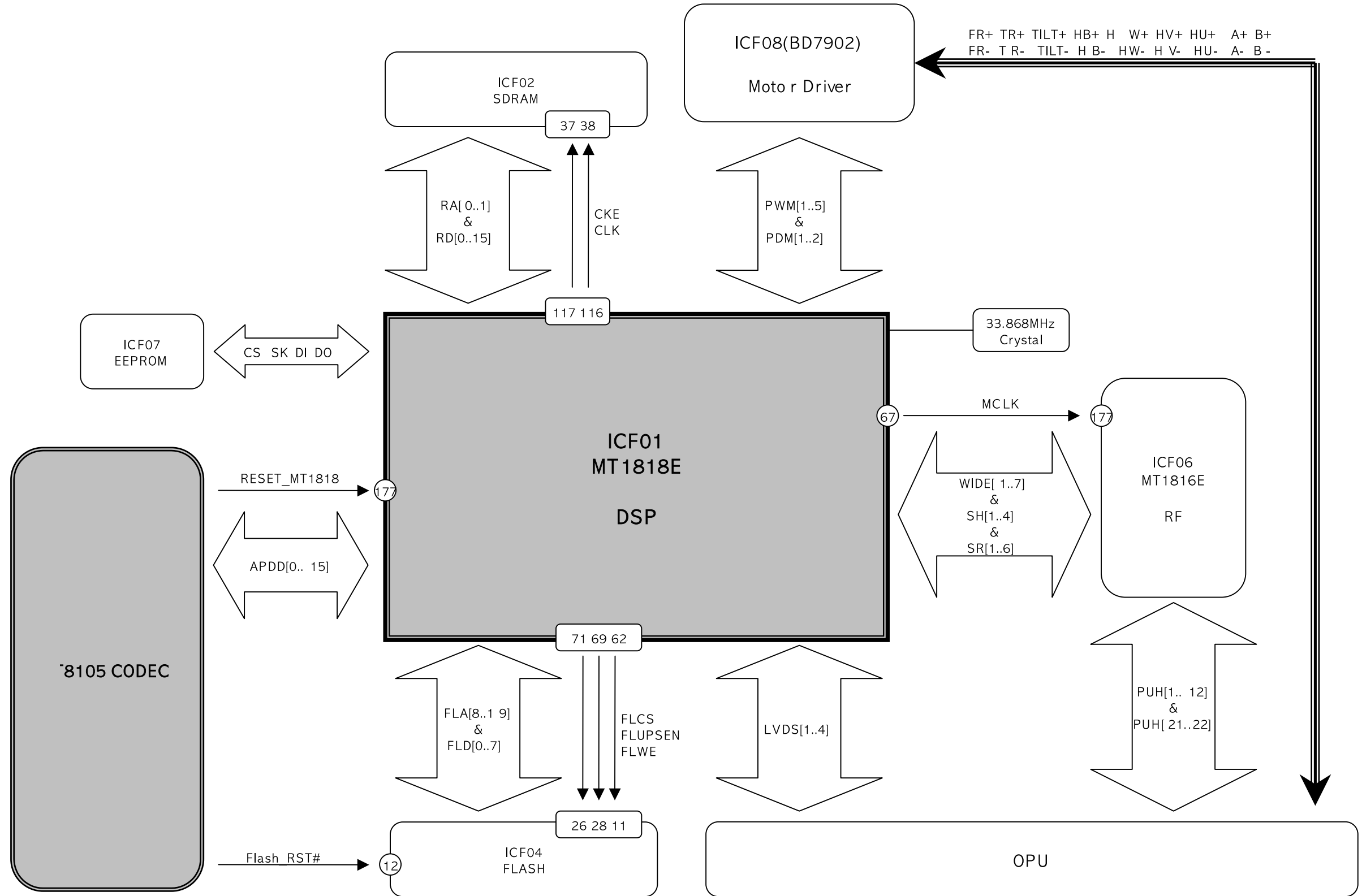
## SYSTEM BLOCK DIAGRAM



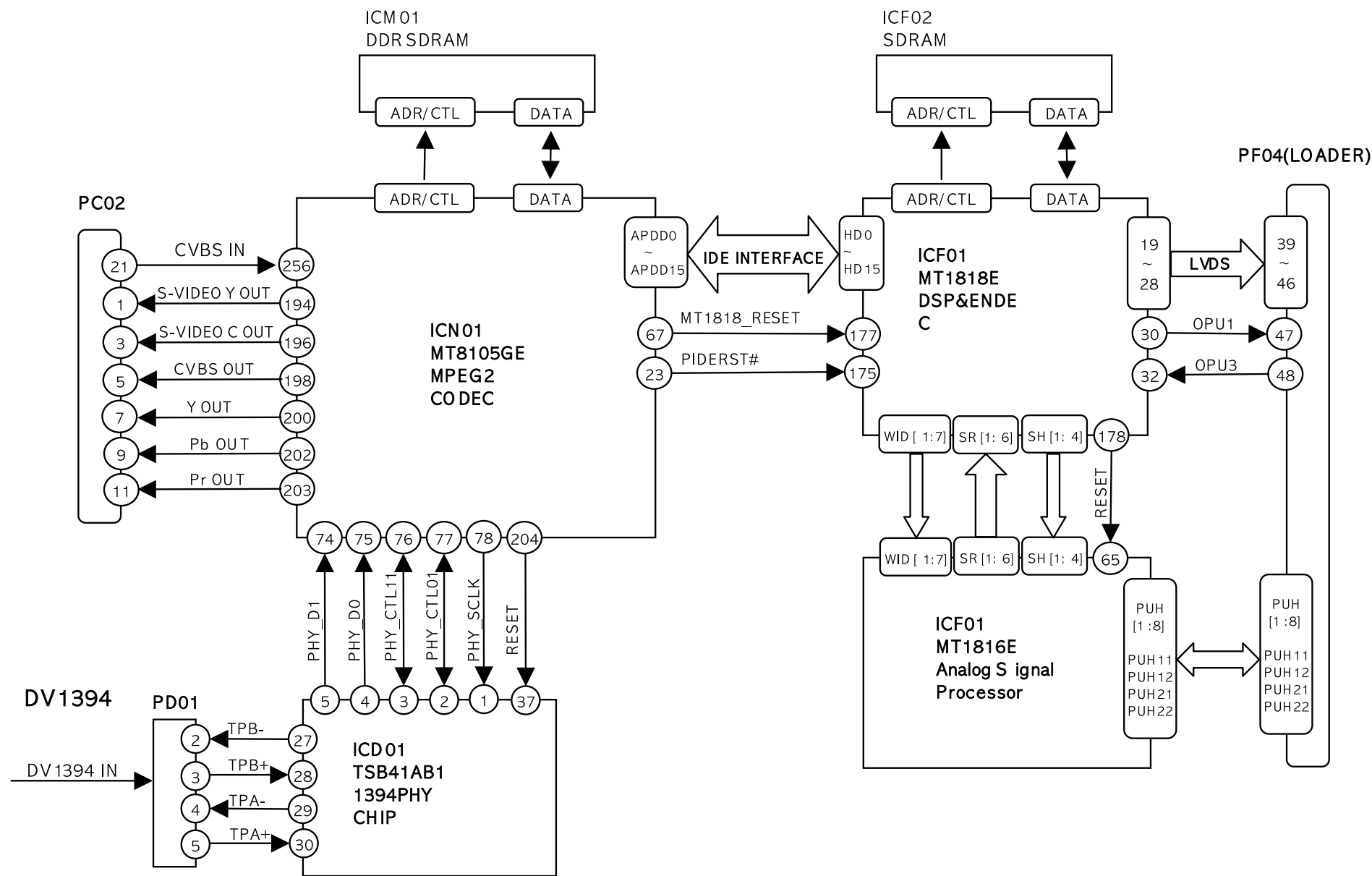
## AUDIO Switching Block Diagram





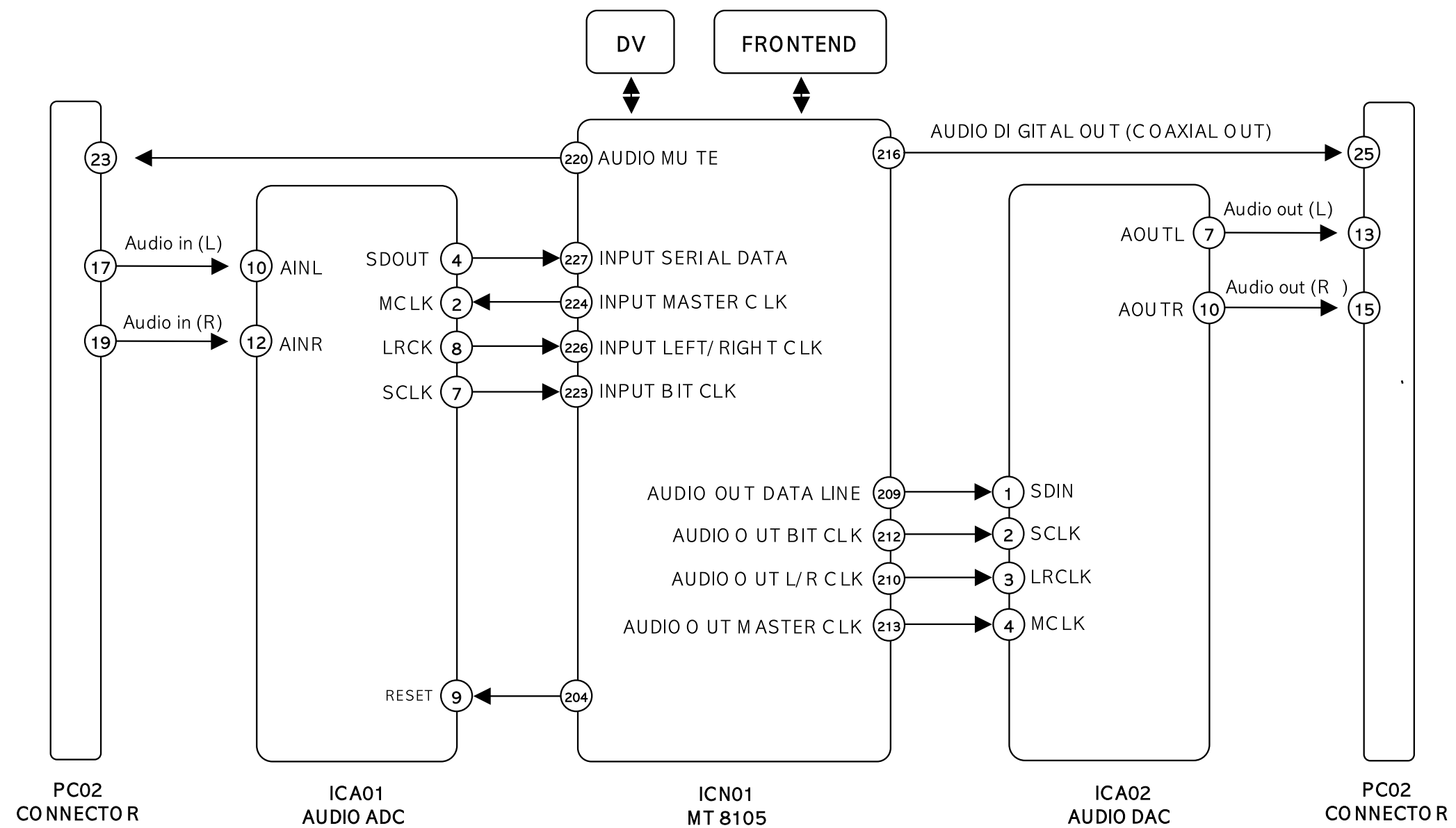


VIDEO Block Diagram



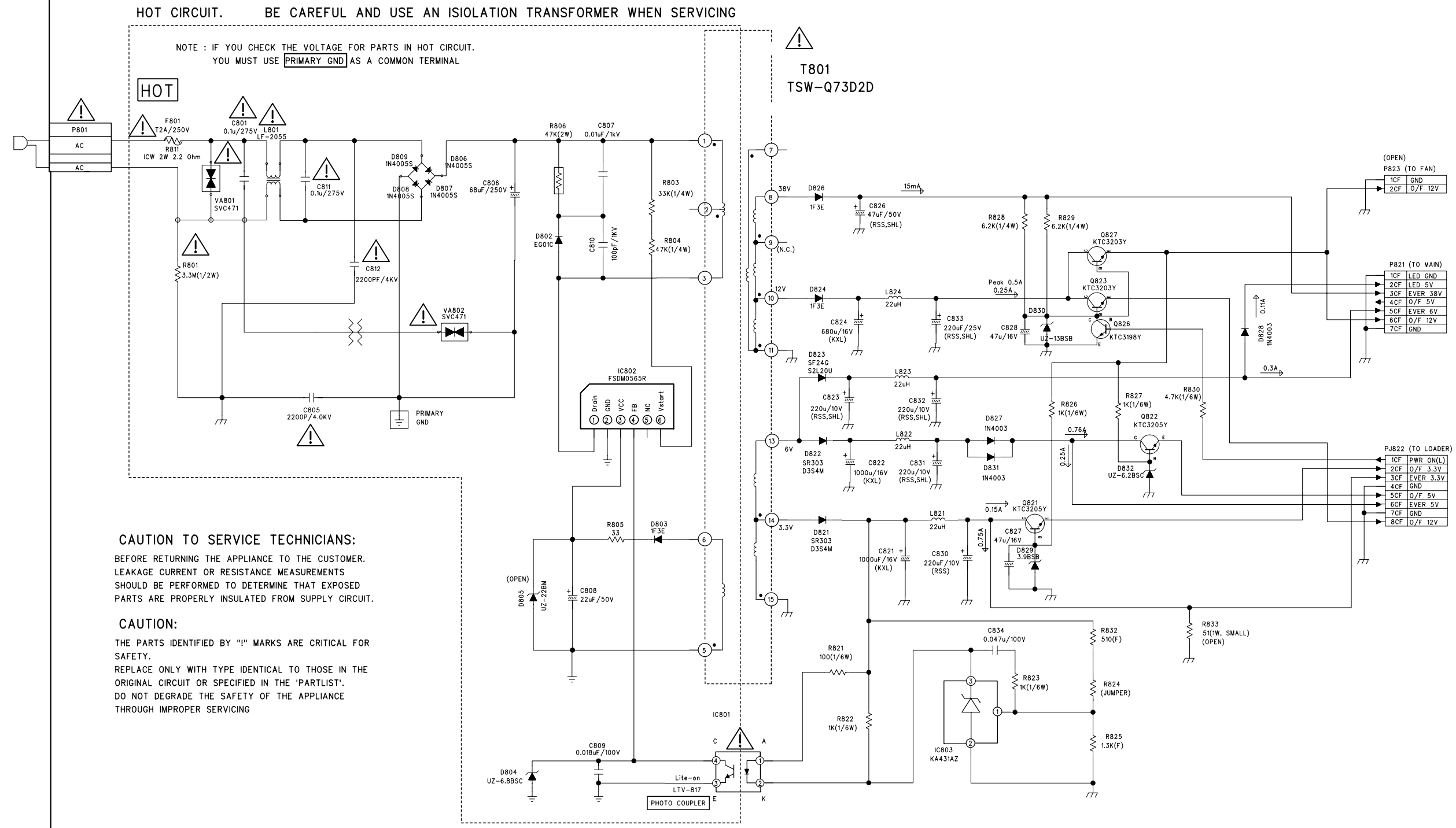


# AUDIO Block Diagram

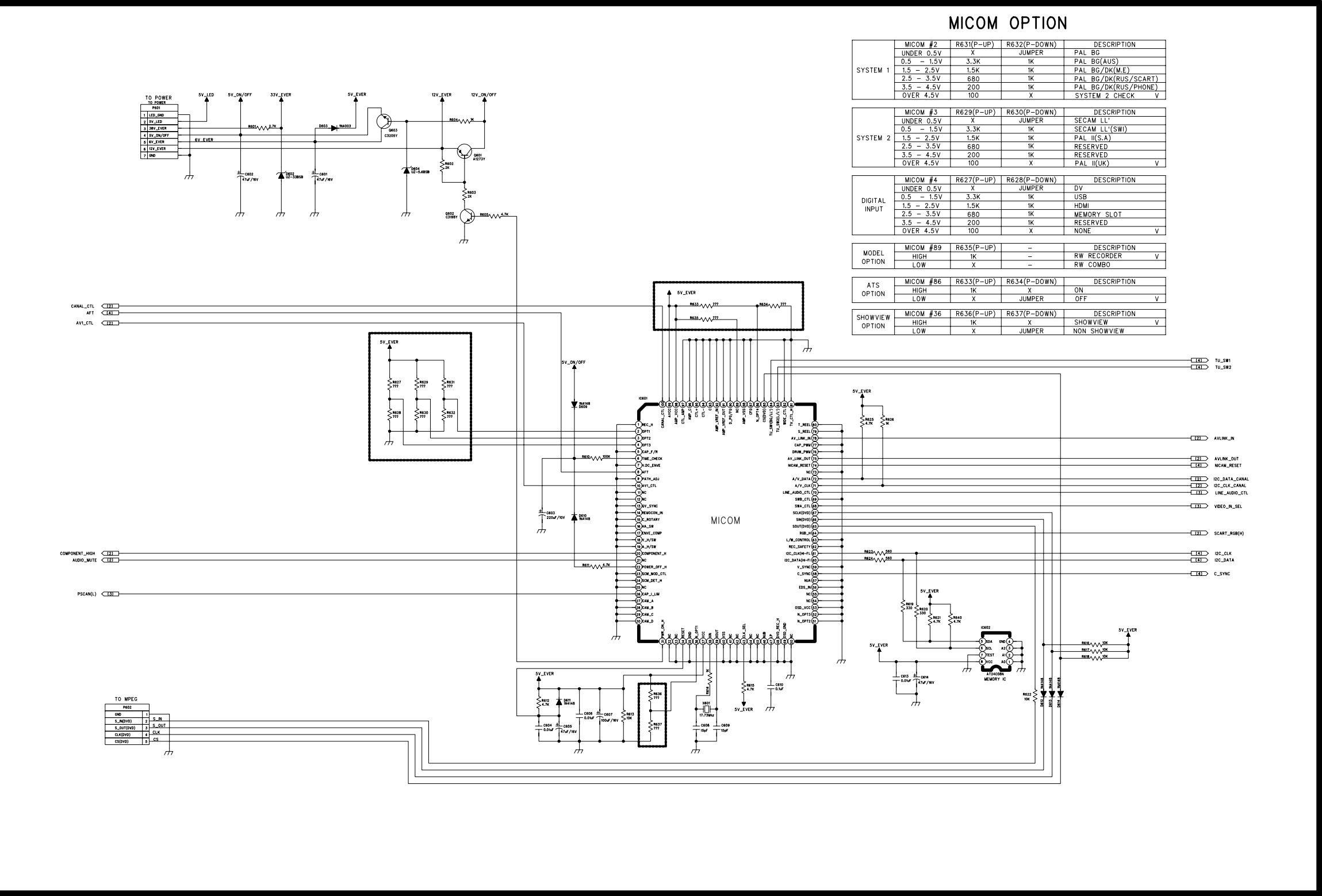


## SCHEMATIC DIAGRAM

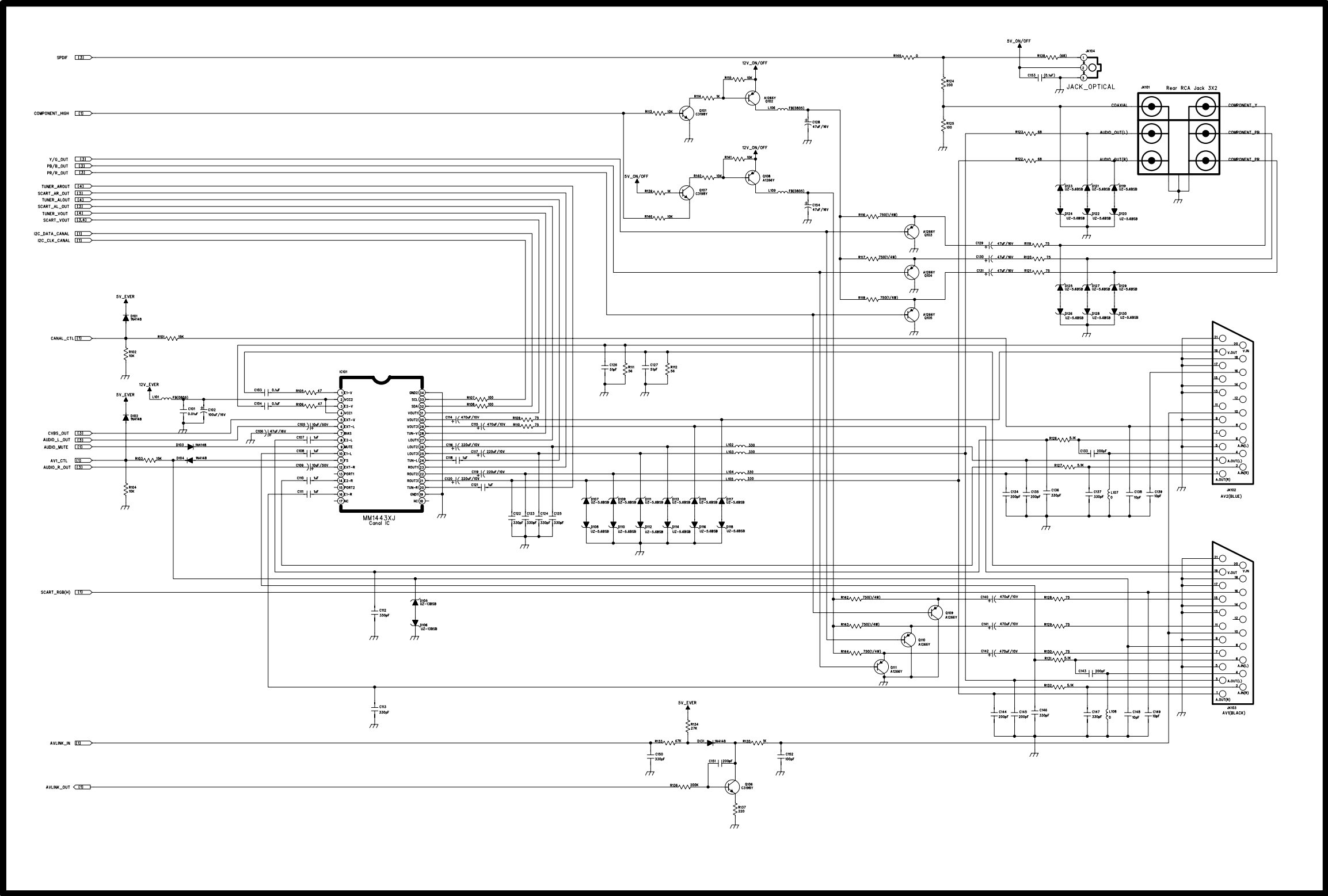
## POWER SUPPLY SCHEMATIC DIAGRAM (MTK\_DVD Recorder Standalone)



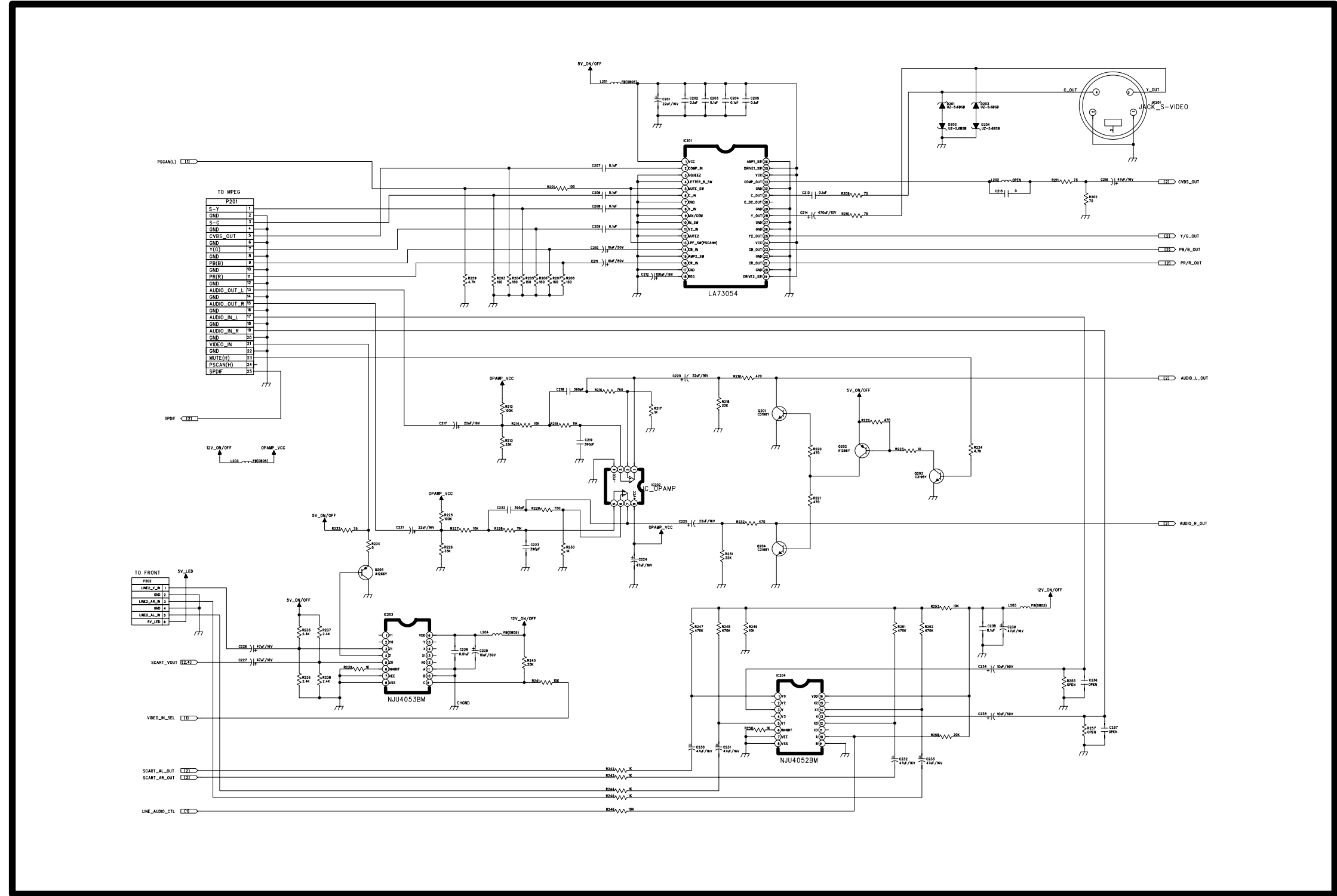
MICOM PART SCHEMATIC DIAGRAM



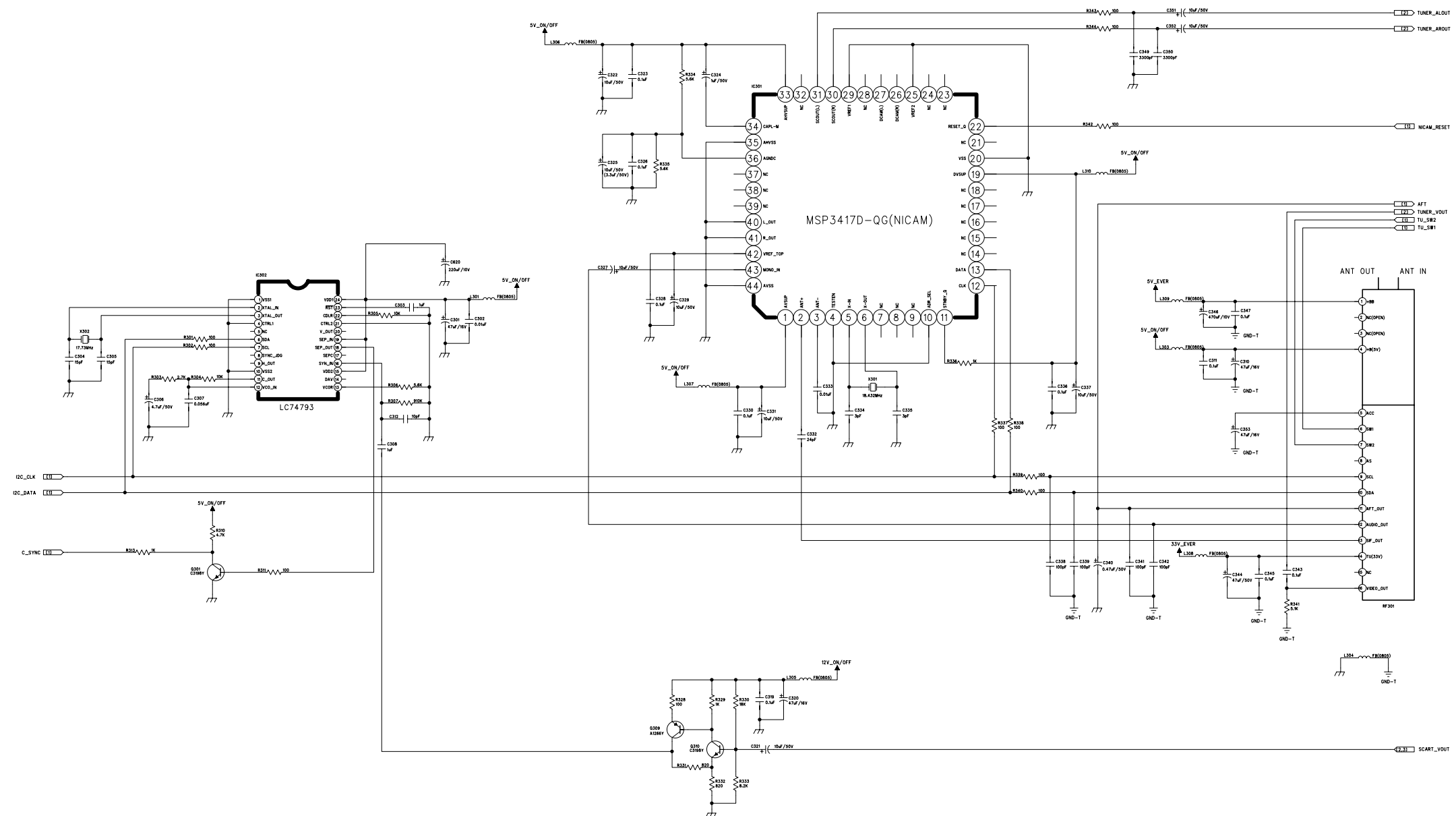
CANAL & AV-OUT CIRCUIT SCHEMATIC DIAGRAM



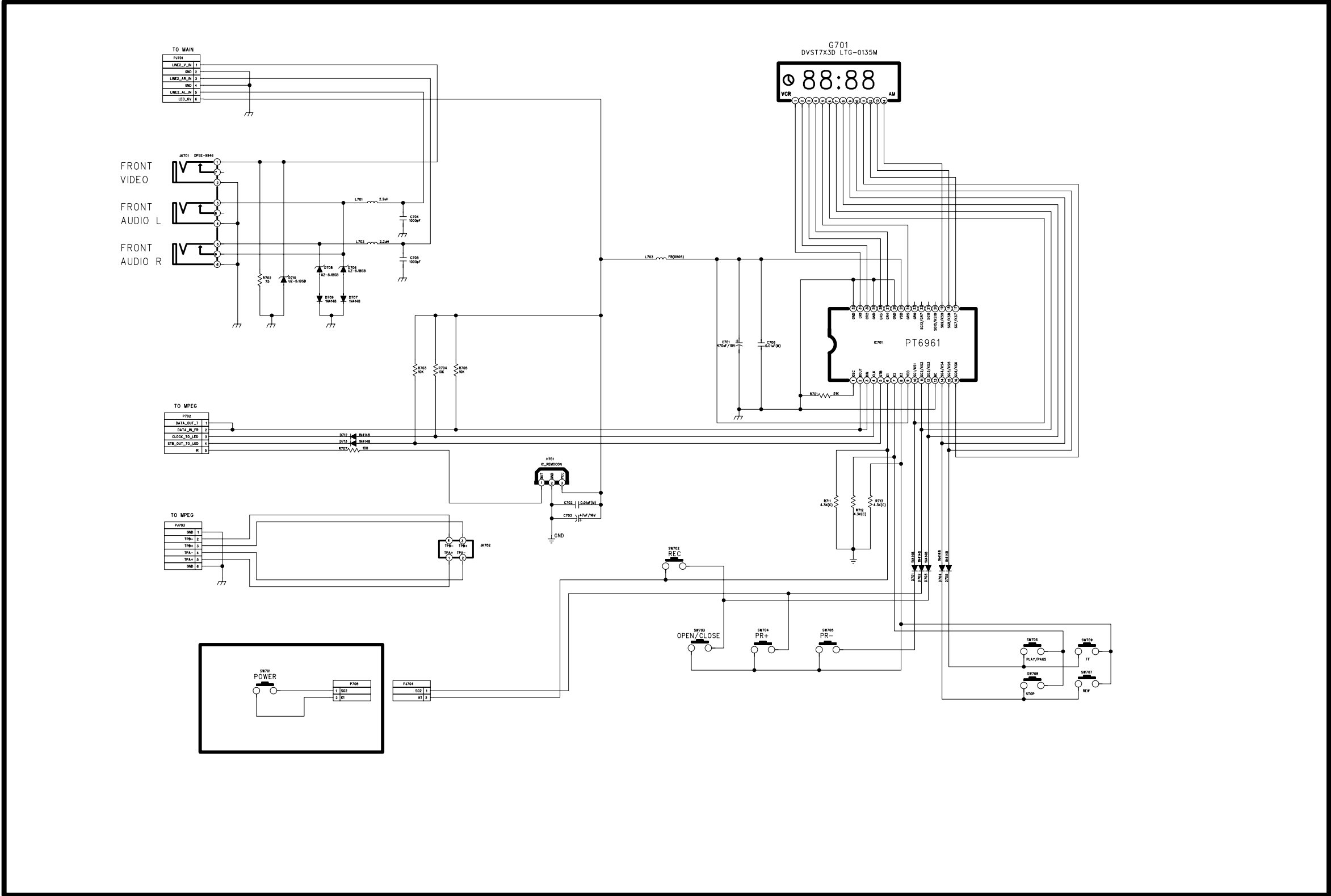
# AUDIO VIDEO SW & AMP. IC SCHEMATIC DIAGRAM

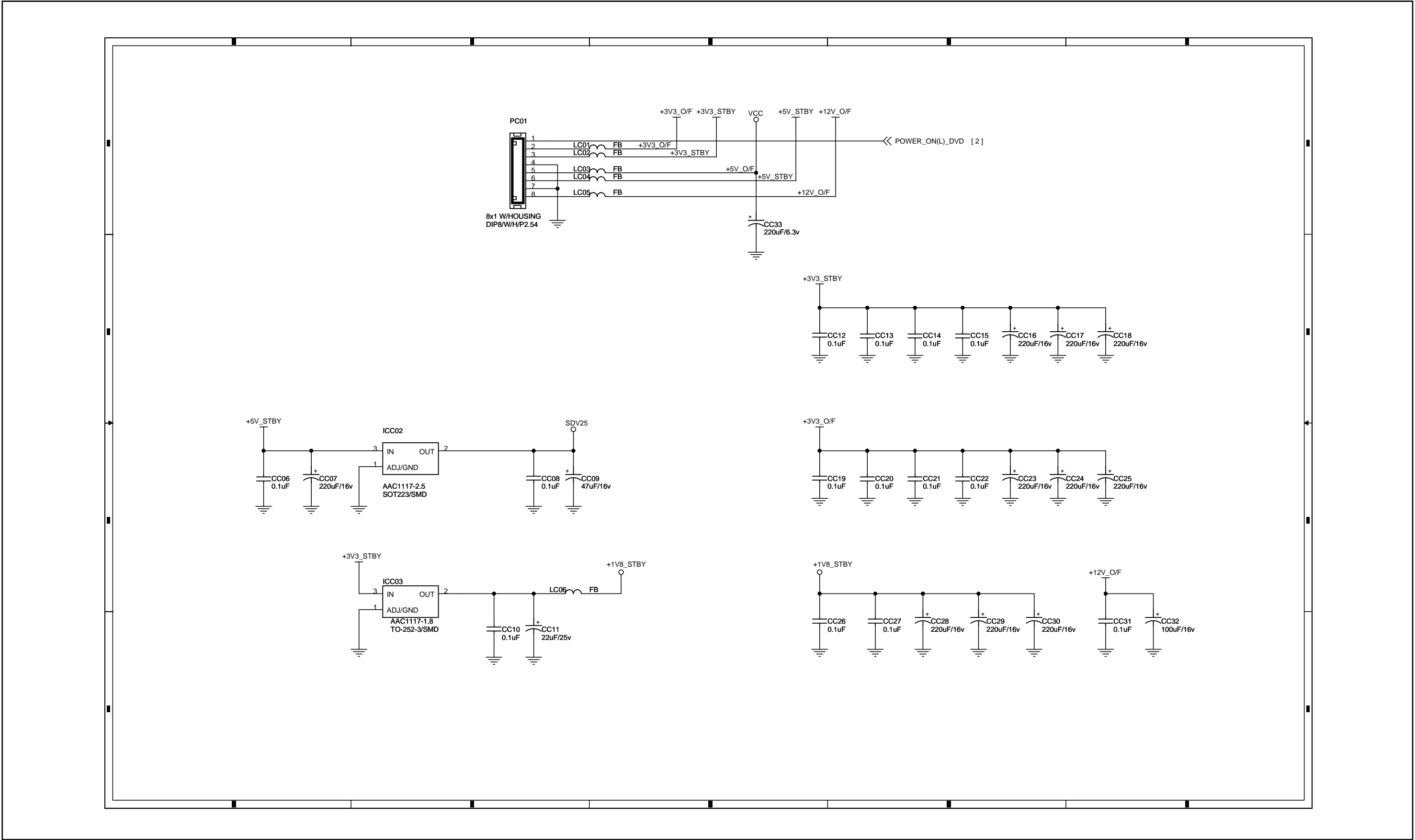


## TUNER,NICAM SCHEMATIC DIAGRAM



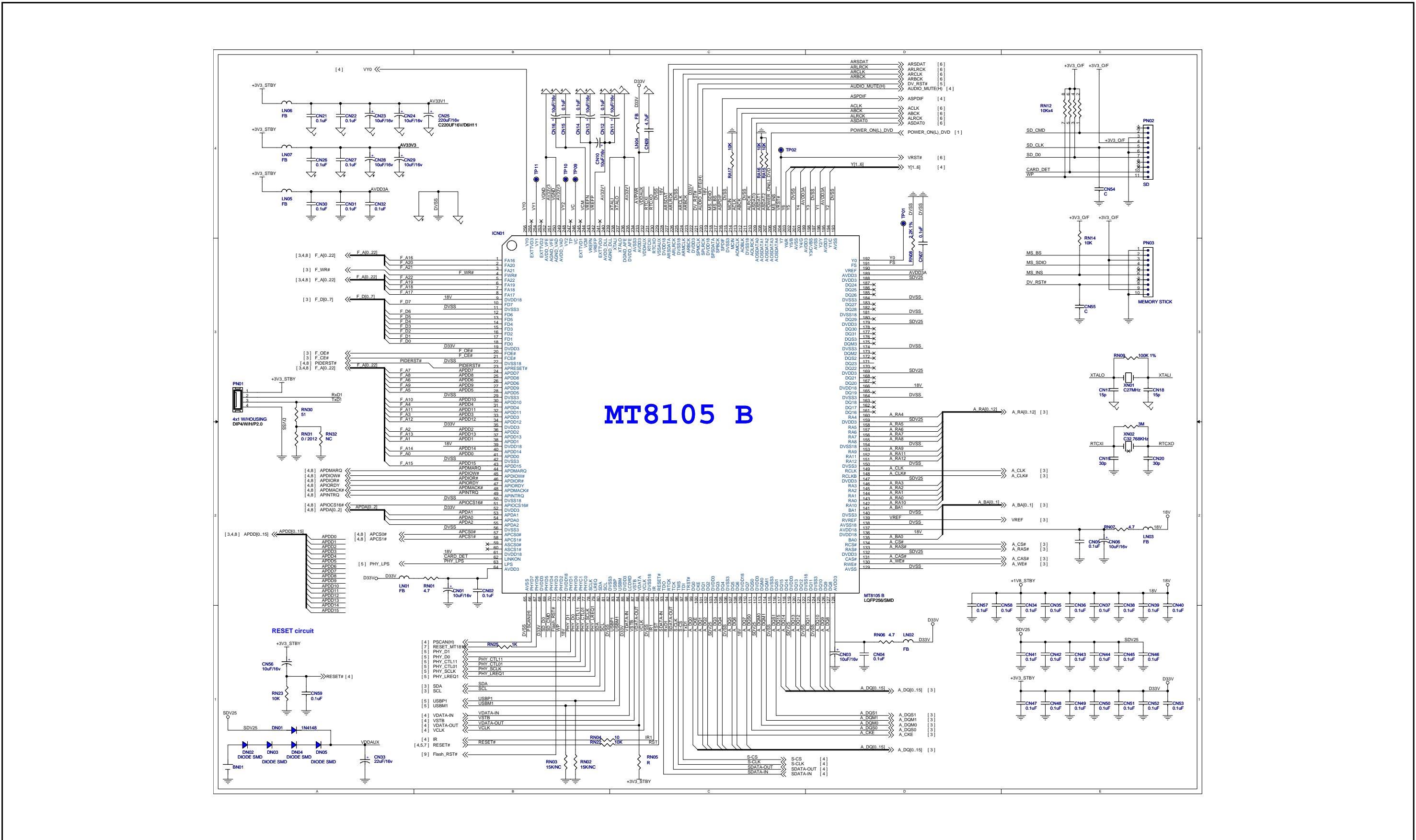
FRONT PART SCHEMATIC DIAGRAM



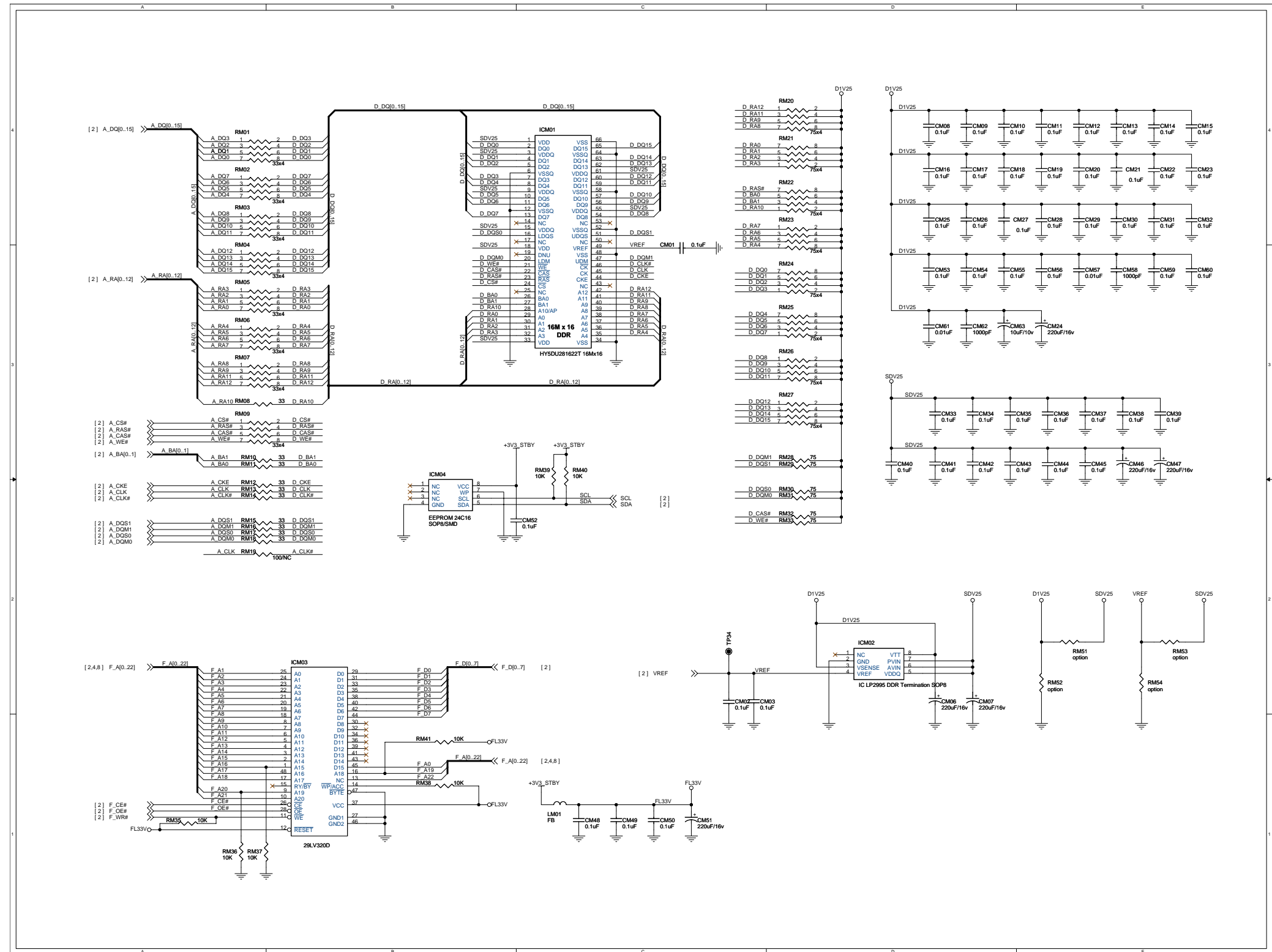


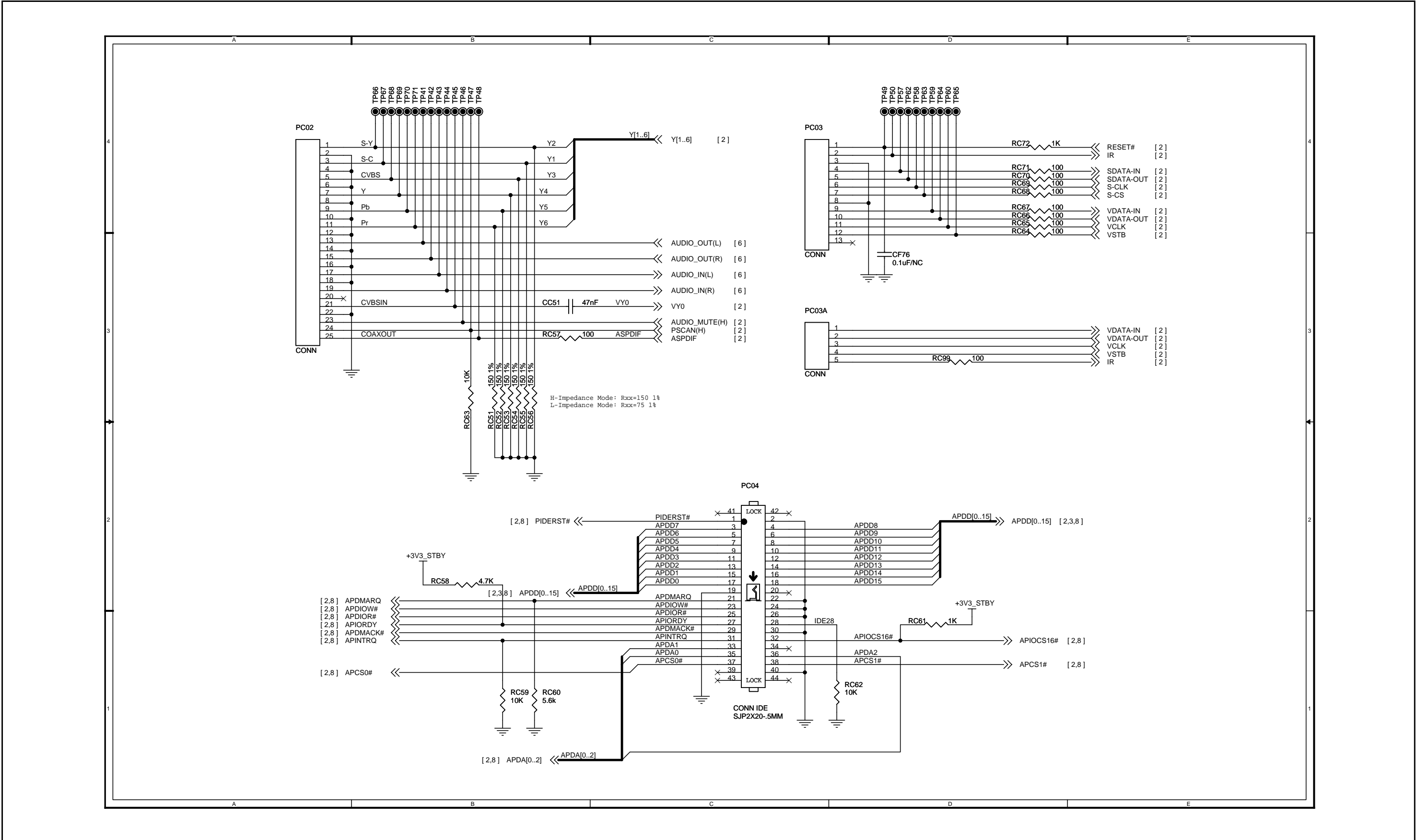


## SCHEMATIC DIAGRAM

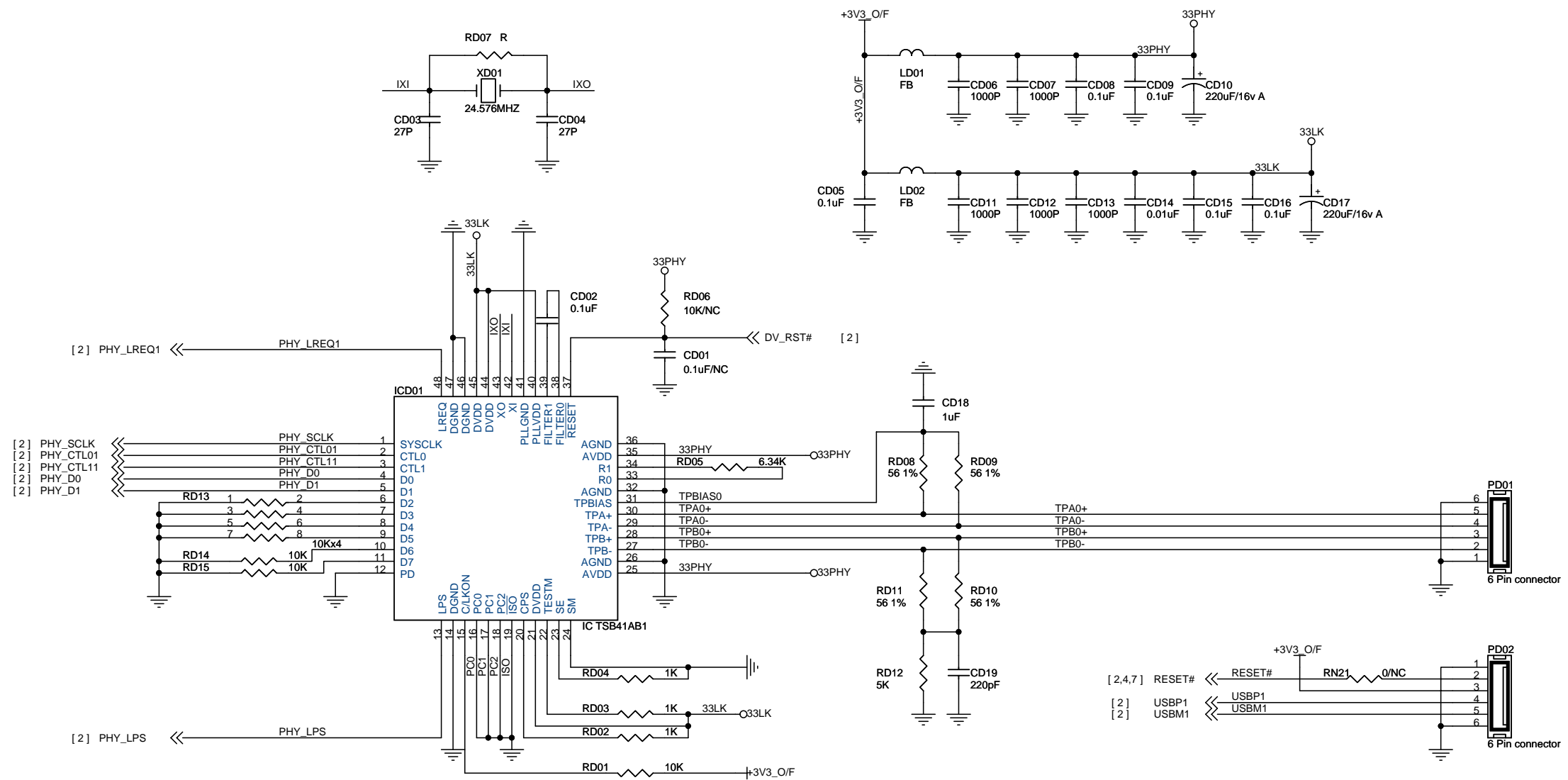


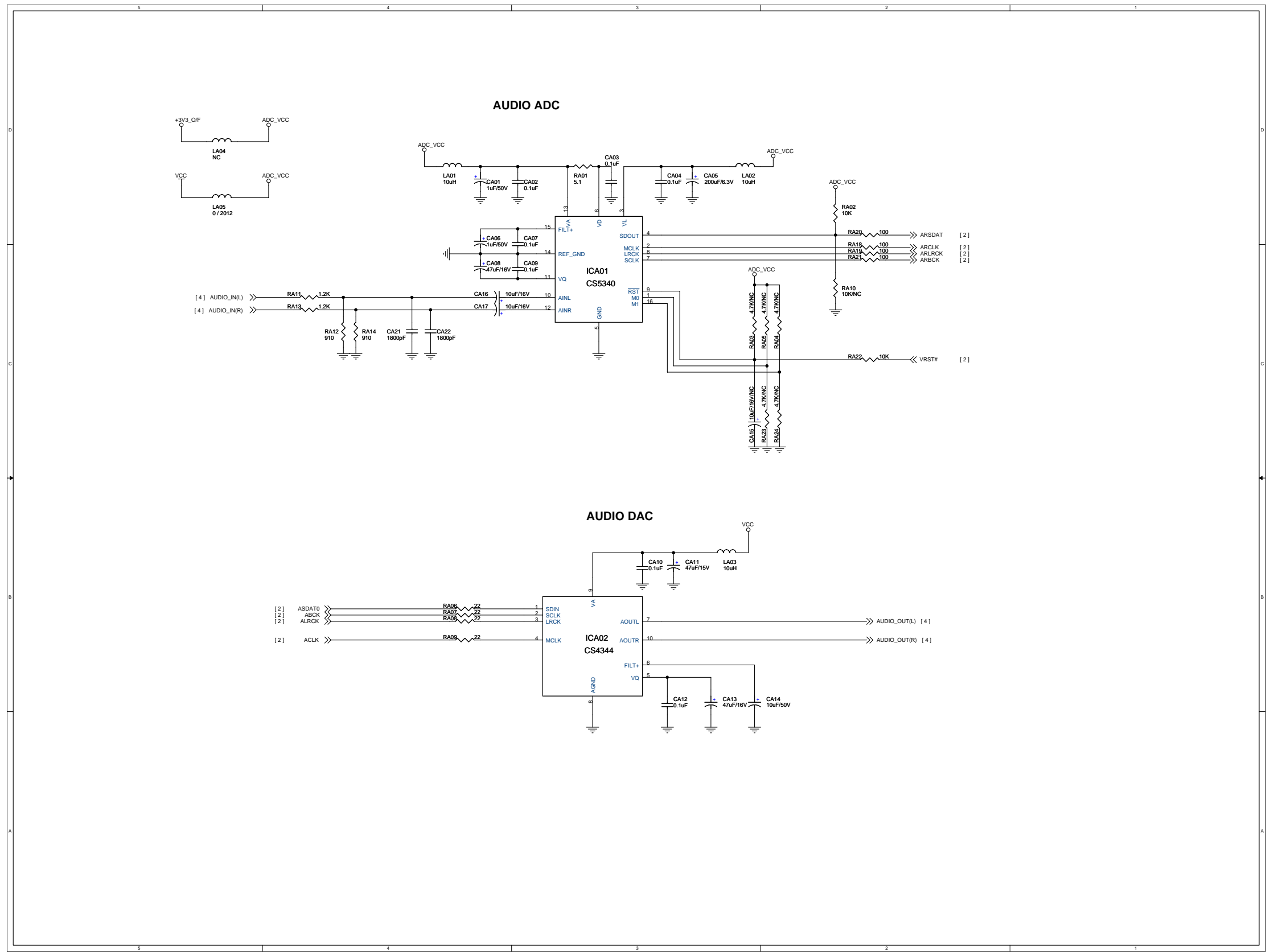
**SCHEMATIC DIAGRAM**





**SCHEMATIC DIAGRAM**

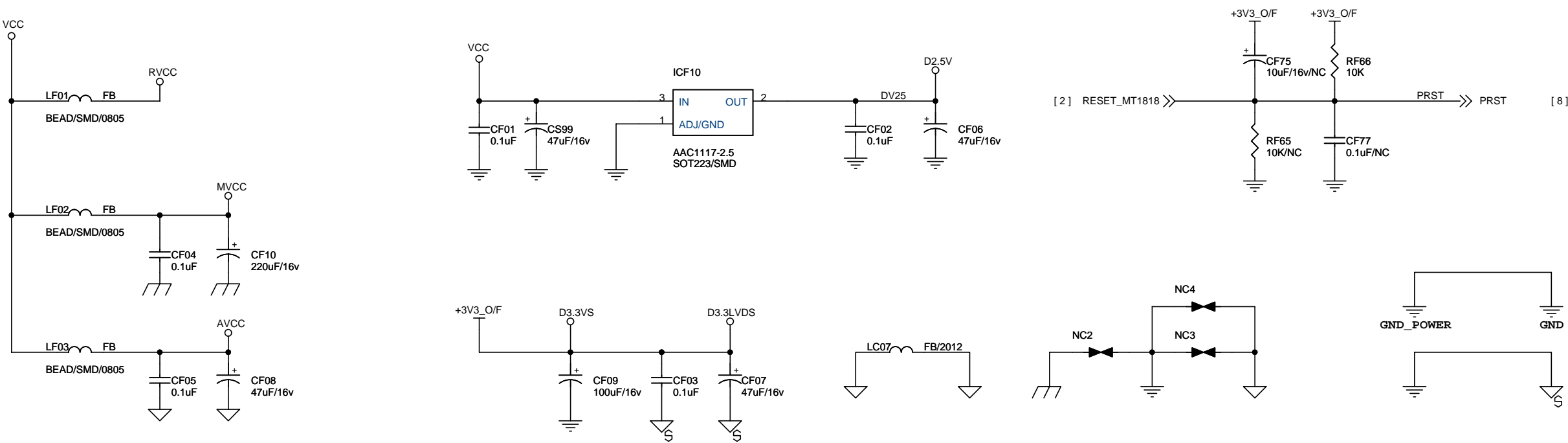


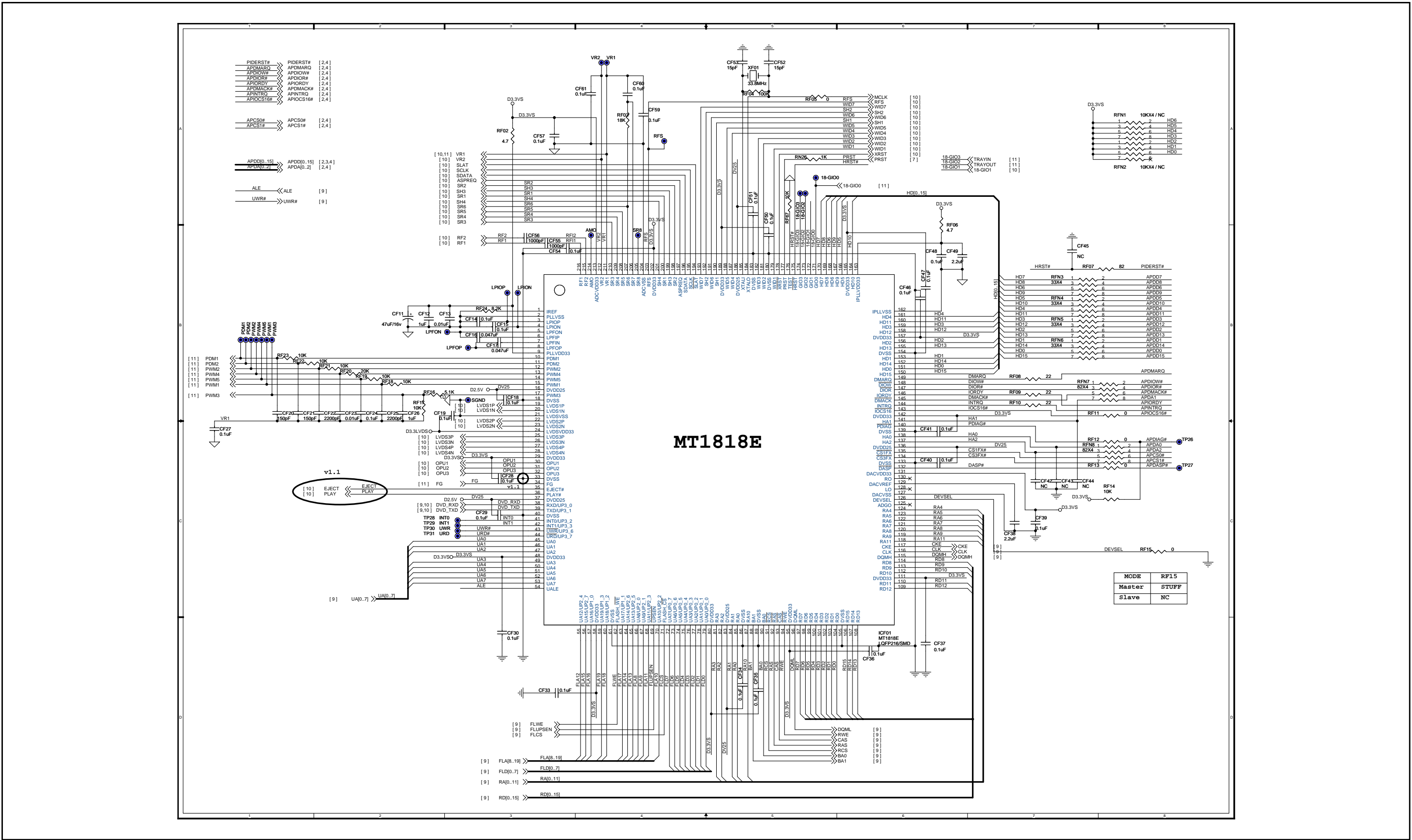


MT1818E (LQFP216) DVR Demo Board for SONY LDX-378 PUH

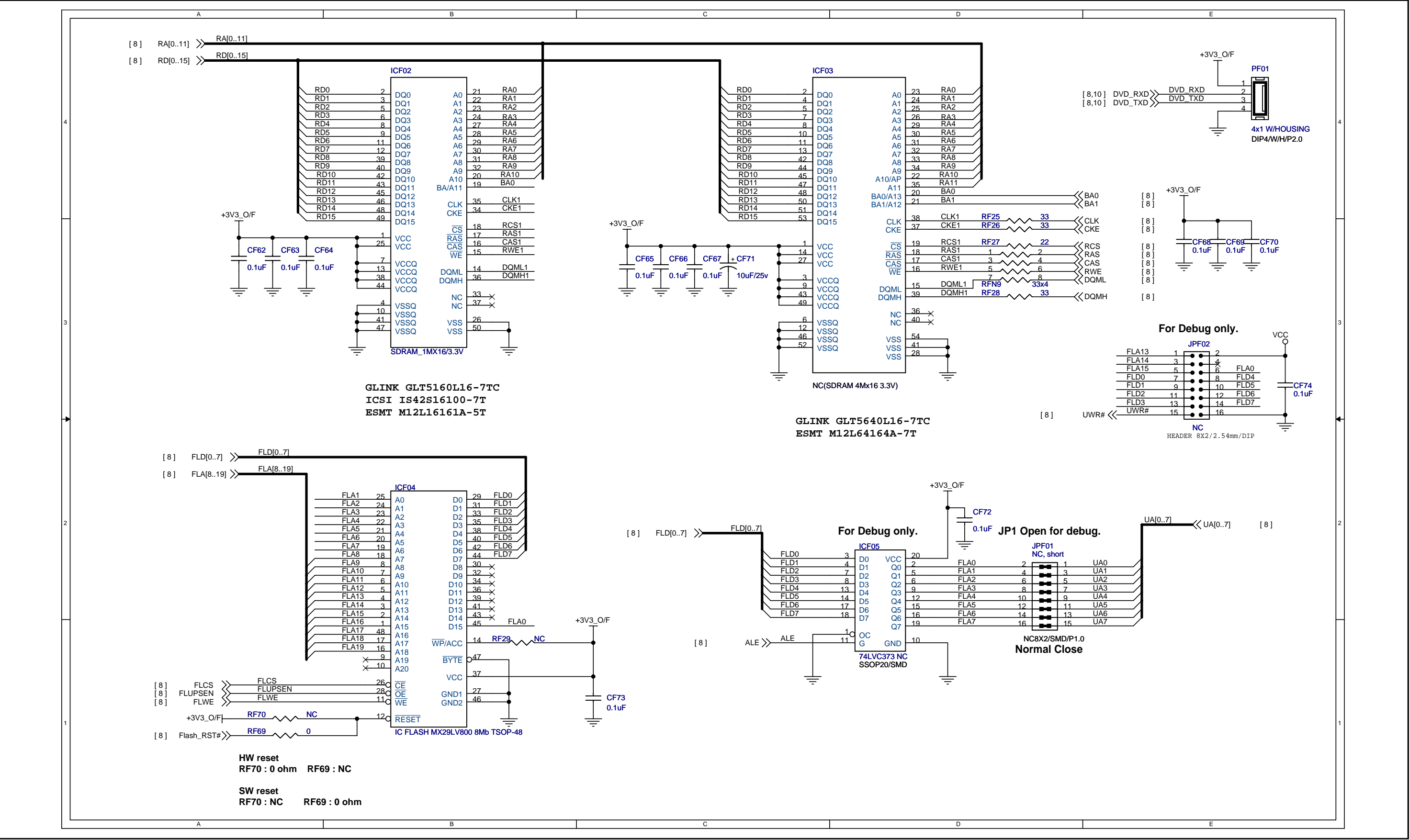
NAME	TYPE	DEVICE
DVCC	Digital 5V	MT1816E & ICE & 93C66
RVCC	Servo 5V	MT1816E
AVCC	RF 5V	PICKUP HEADER + Audio AMP.
D3.3V	Digital 3.3V	Flash & TTL IC
D3.3VS	Digital 3.3V	MT1818E
+5V	Source 5V	Power Supply
+12V	Source 12V	Power Supply
SDVCC	Digital 3.3V	SDRAM
MVCC	Motor 5V	Motor Drive
D3.3LVDS	Digital 3.3V	MT1818E
FVCC	Digital 3.3/5.0V	FLASH ROM

NAME	TYPE	DEVICE
D2.5V	Digital 2.5V	MT1818E
DGND	GND_POWER	Digital Ground Plane
AGND	GND_SIGNAL	Analogy Ground Plane
AAGND	AAGND	Audio Ground Plane
MGND	GND_EARTH	Motor Ground Plane
SGND	GND_S	LVDS Ground Plane

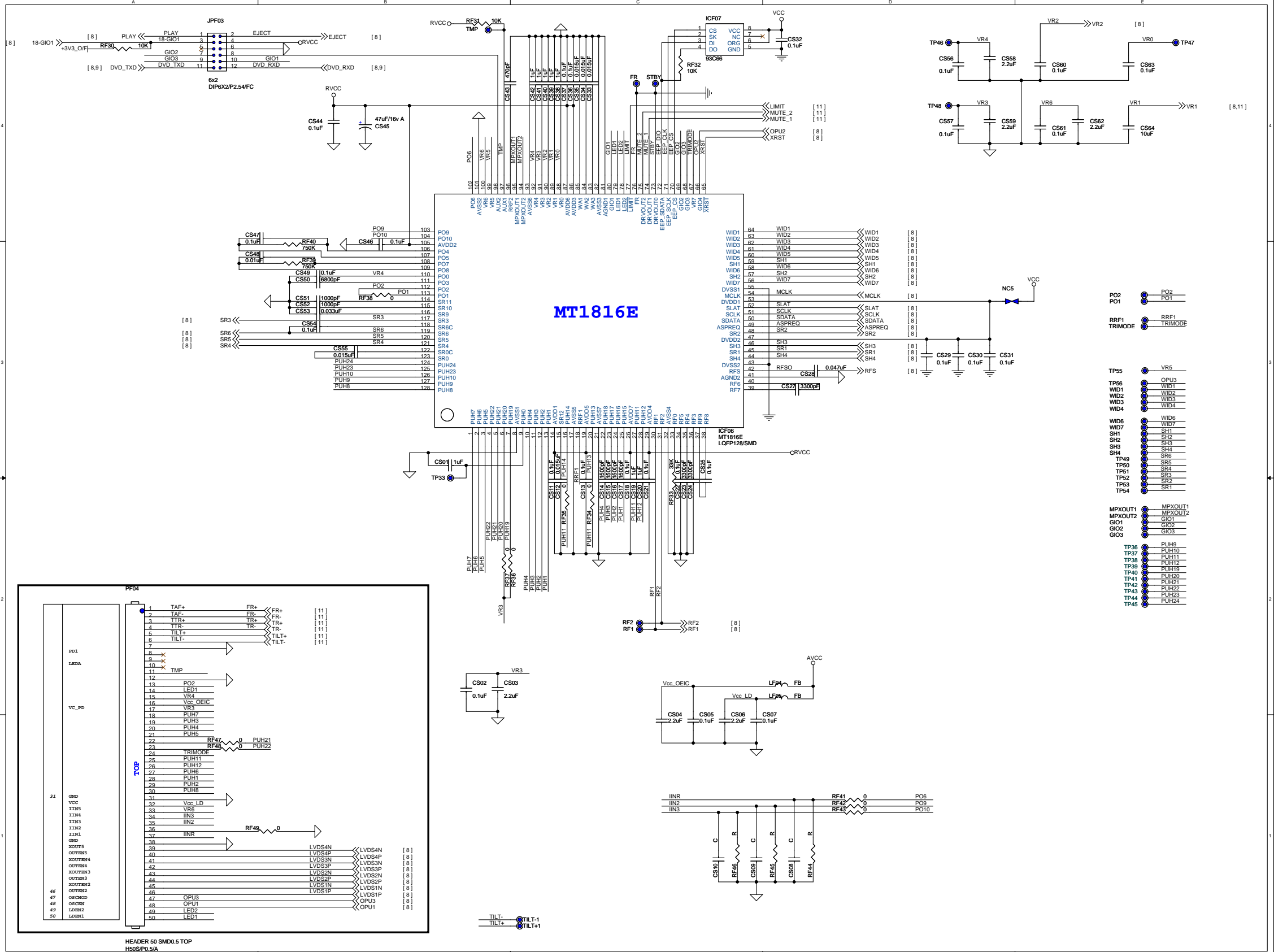




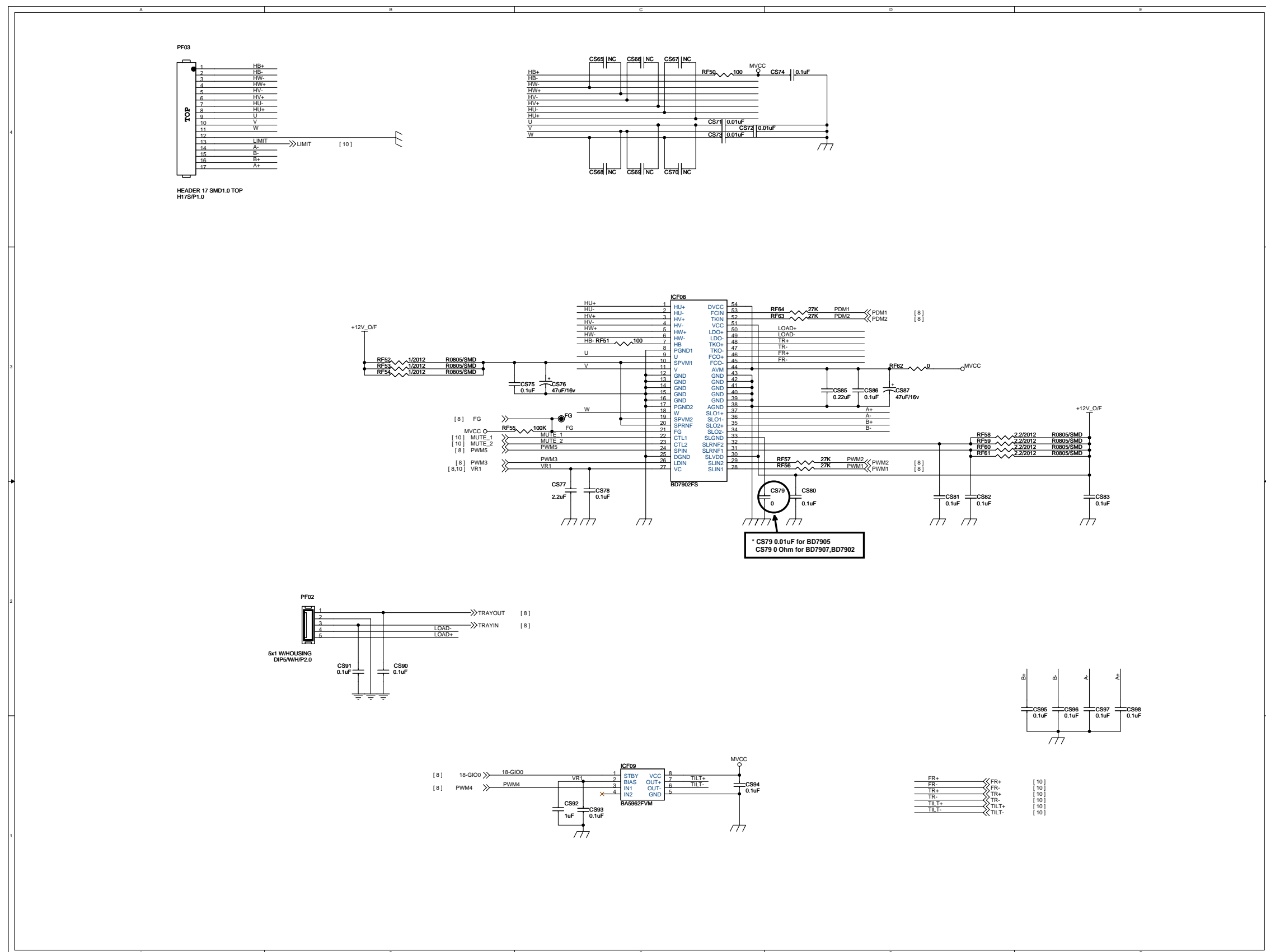
SCHEMATIC DIAGRAM





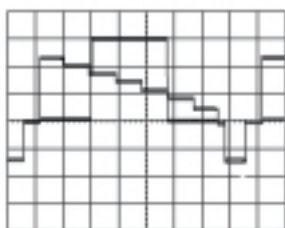


**SCHEMATIC DIAGRAM**

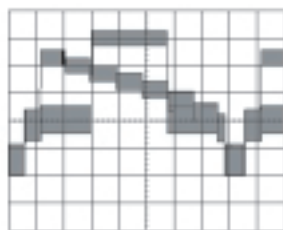


# WAVEFORMS

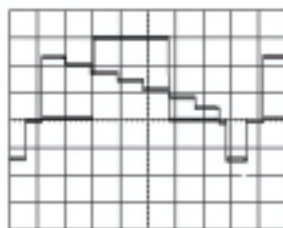
## 1. VIDEO



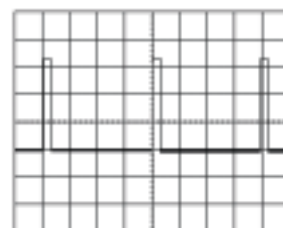
① (P201-①) 2.0Vp-p  
500mV/10usec/cm  
REC(S-Y)



② (P201-⑤) 2.0Vp-p  
500mV/10usec  
REC(V-OUT)

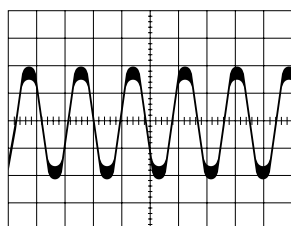


③ (P201-⑦) 2.0Vp-p  
500mV/10usec  
REC(Y(G))

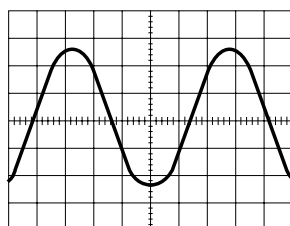


④ (IC601-⑤⑧) 4.8Vp-p  
1V/20usec  
C-SYNC

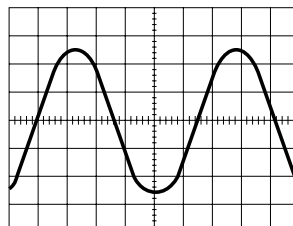
## 2. AUDIO



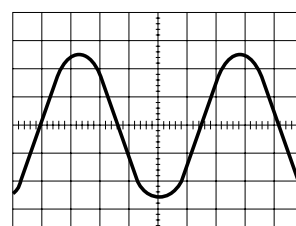
① (P201-⑬⑮) 500mVp-p  
200mV/0.5msec  
REC(A-OUT L/R)



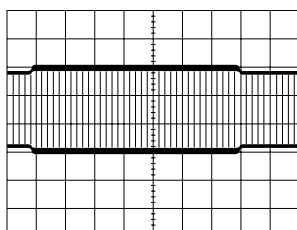
② (P201-⑰⑲) 1Vp-p  
200mV/0.2msec  
REC(A-IN L/R)



③ (IC301-⑳) 1Vp-p  
200mV/0.2msec  
REC

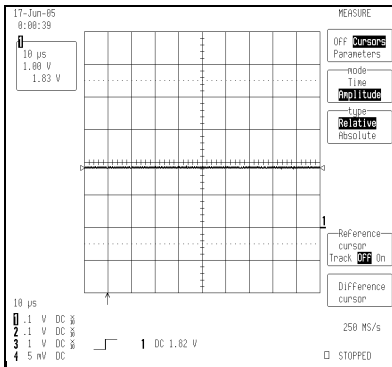


④ (IC301-㉑) 1Vp-p  
200mV/0.2msec  
REC

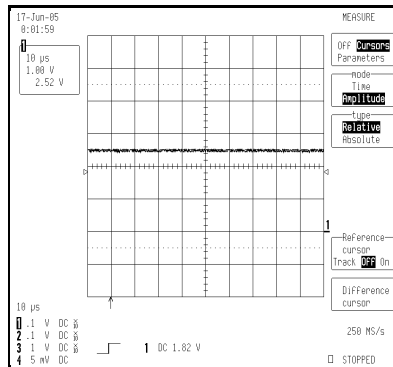


⑤ (RF301-㉓) 400mVp-p  
200mV/20usec  
REC(SIF OUT)

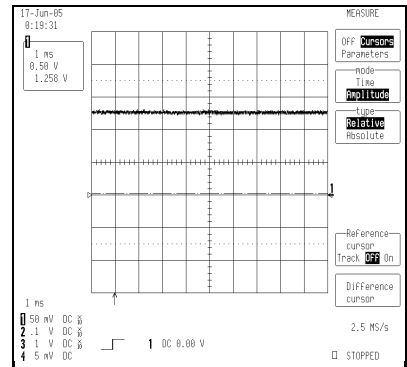
# 1. SYSTEM WAVEFORMS



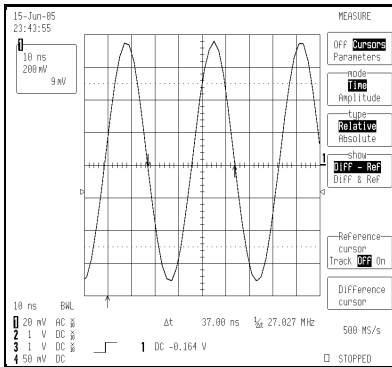
< ICC03 : +1.8V Voltage >



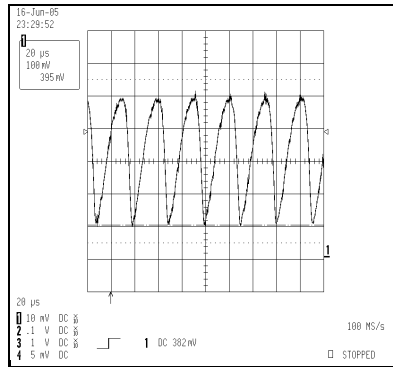
< ICC02 : +2.5V Voltage >



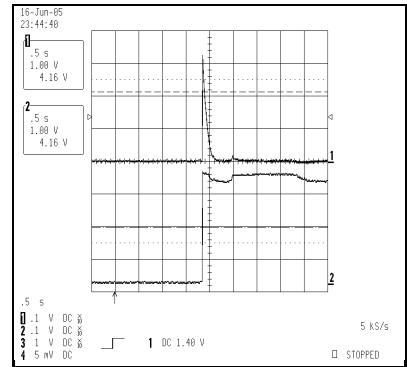
< ICM02 : +1.25V Voltage >



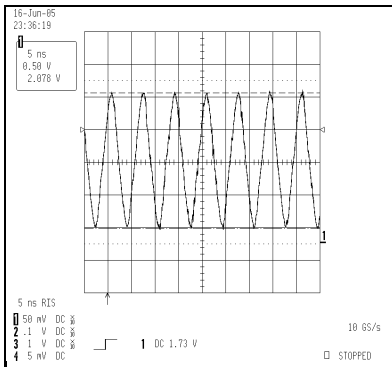
< XN01 : 27MHz X-tal >



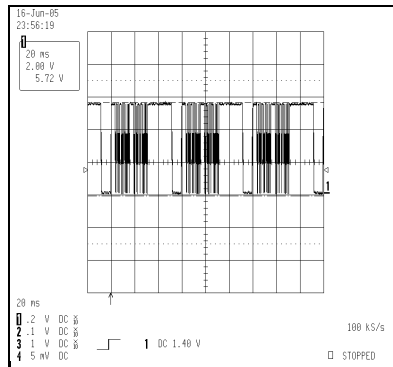
< XN02 : 32.768KHz X-tal >



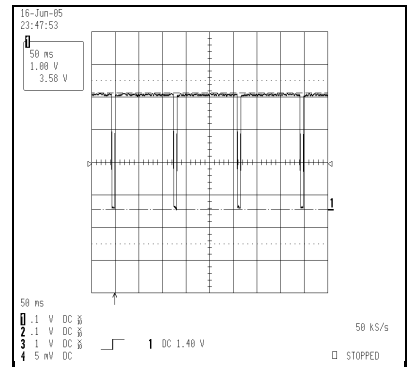
< RN22 : MT8105 Reset & +3.3V STBY >



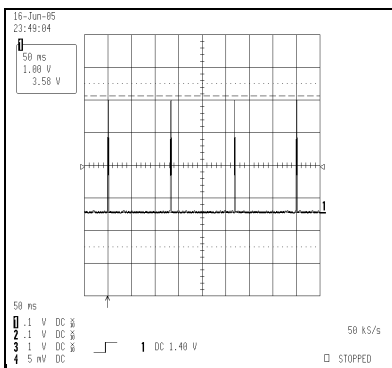
< RM13 : DDR clock >



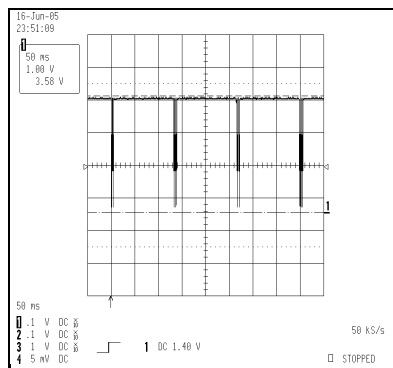
< RN04 : IR >



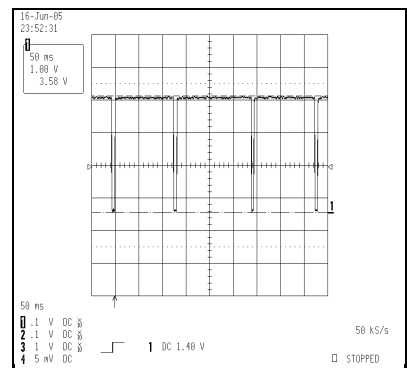
< RC71 : SDATA-IN >



< RC70 : SDATA-OUT >

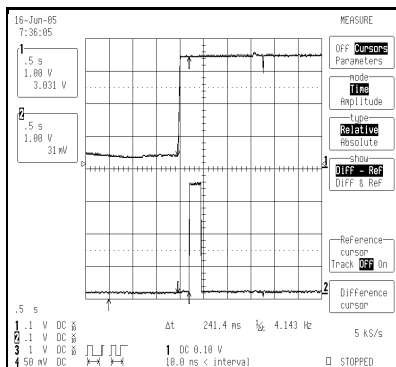


< RC69 : S-CLK >

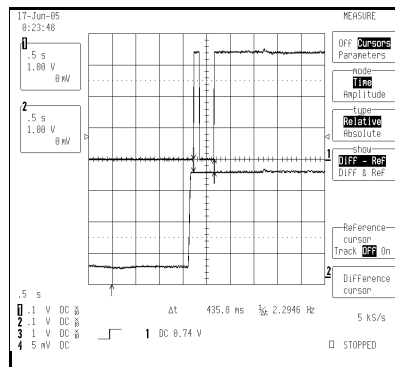


< RC68 : S-CS >

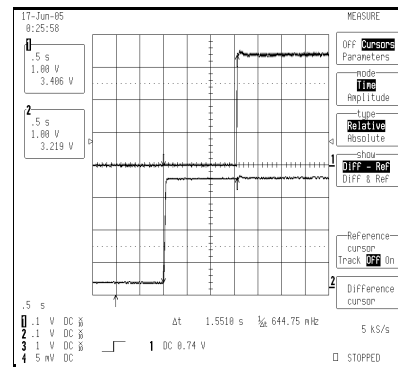
## WAVEFORMS



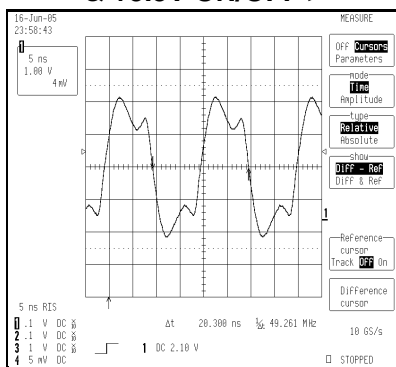
< RN25 : MT1818 Reset  
& +3.3V ON/OFF >



< RF69 : Flash Reset  
& +3.3V ON/OFF >

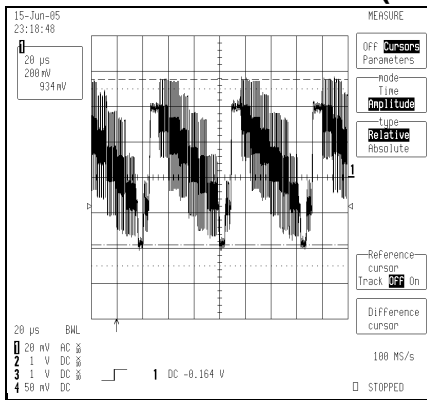


< RD06 : DV Reset  
& +3.3V ON/OFF >

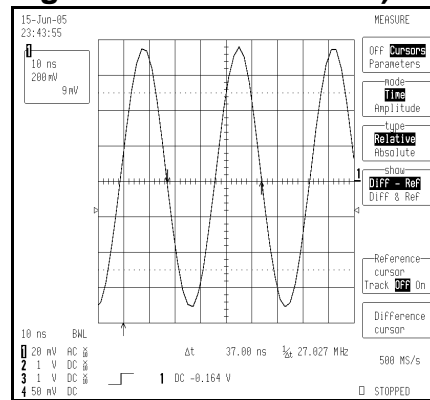


< Pin1 of ICD01 : Phy clock >

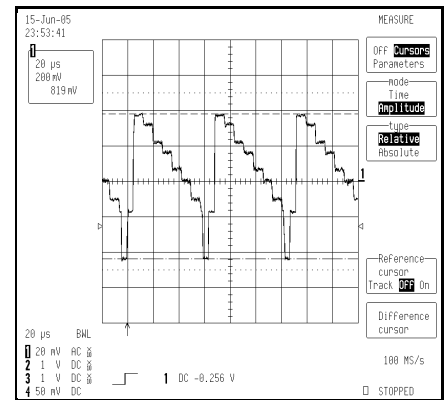
## 2. VIDEO WAVEFORMS(Test Signal : 100% Color Bar)



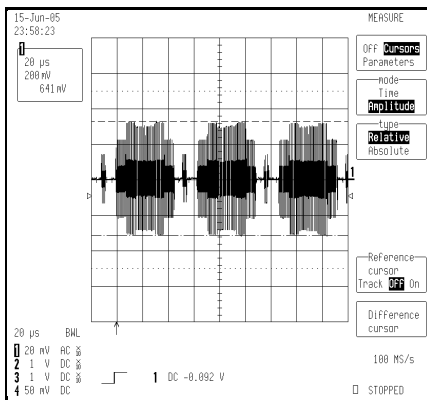
< CVBS IN : ICN01.256 >



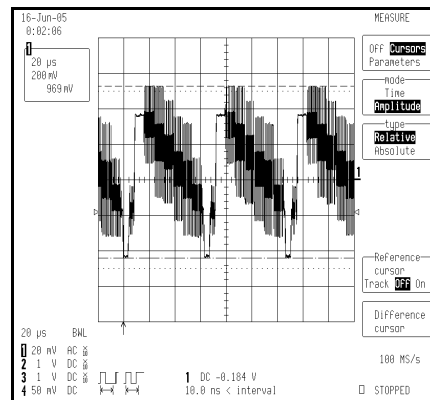
< XN01 : CN18.01 >



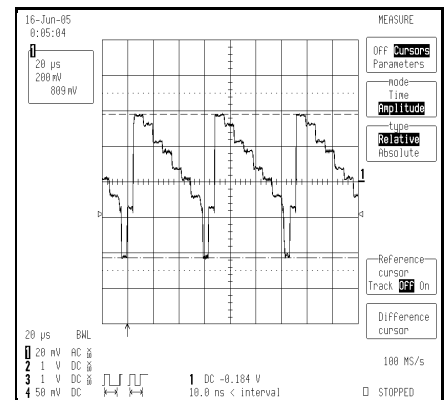
< SVIDEO Y OUT : PC02.01 >



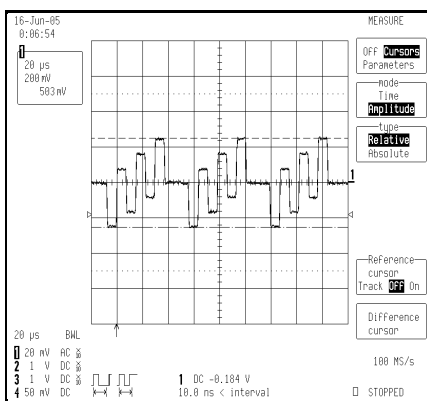
< SVIDEO C OUT : PC02.03 >



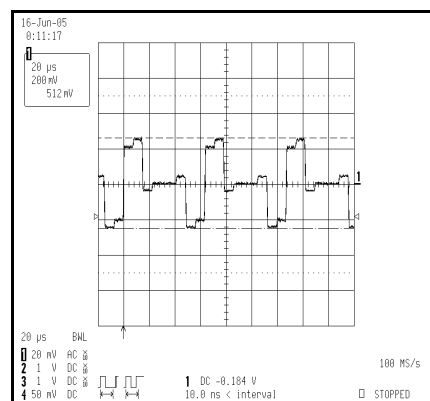
< CVBS OUT : PC02.05 >



< Y OUT : PC02.07 >

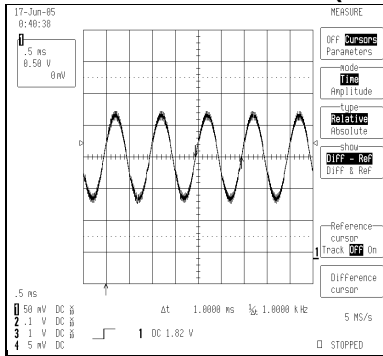


< Pb Out : PC02.09 >

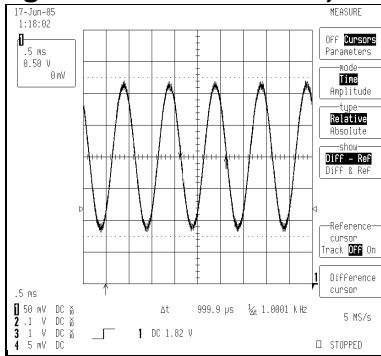


< Pr Out : PC02.09 >

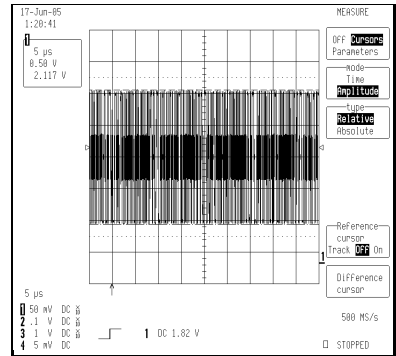
### 3. Audio WAVEFORMS(Test Signal : 1KHz Sinewave)



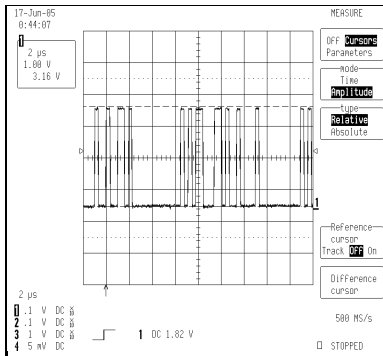
< ADC Audio Input : ICA01.10&12 >



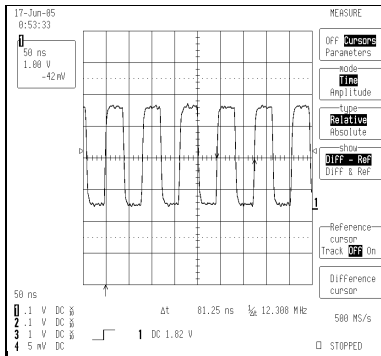
< DAC Audio Output : ICA02.7&10 >



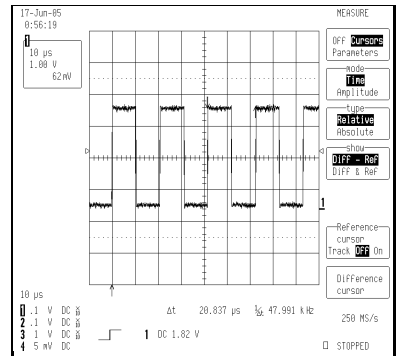
< COAXIAL Output : PC02.25 >



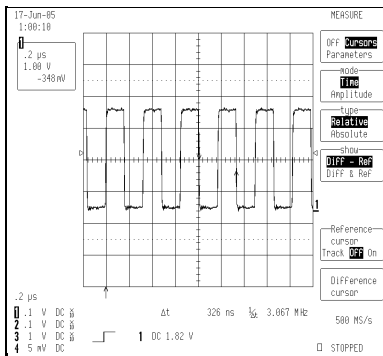
< ADC SDOUT : ICA01.4 >



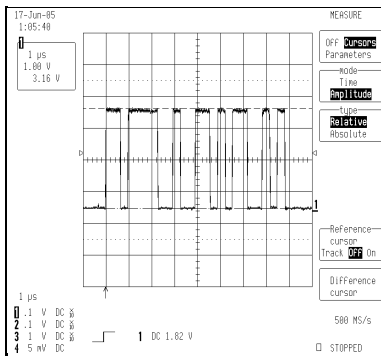
< ADC MCLK : ICA01.2 >



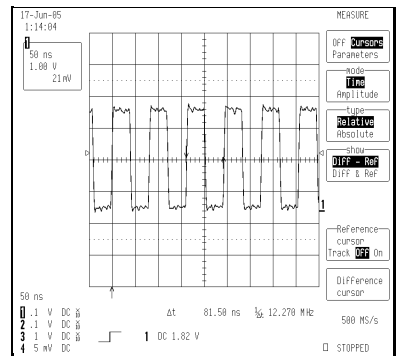
< ADC L/RCLK : ICA01.8 >



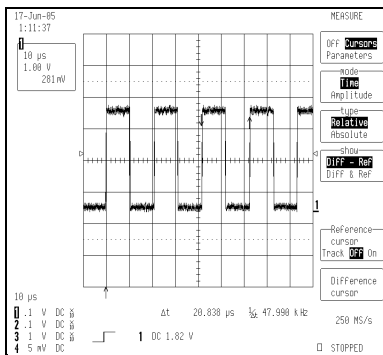
< ADC SCLK : ICA01.7 >



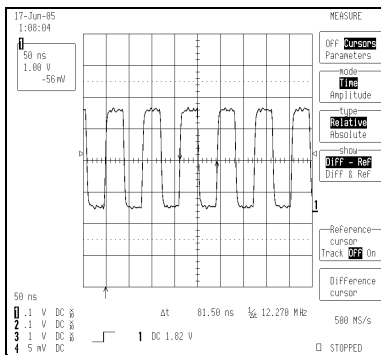
< DAC SDIN : ICA02.1 >



< DAC MCLK : ICA02.4 >

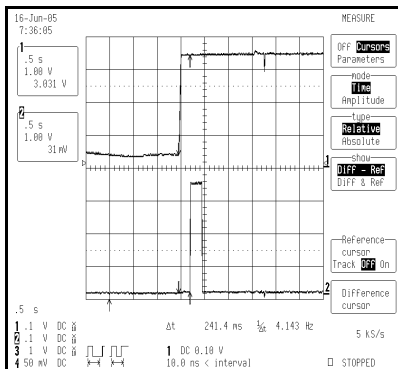


< DAC L/RCLK : ICA02.3 >

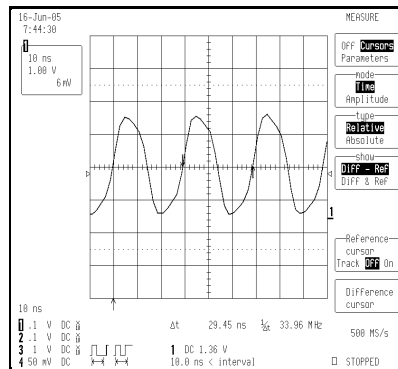


< DAC SCLK : ICA02.2 >

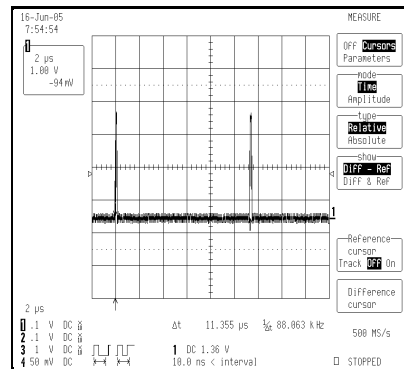
#### 4. Front End WAVEFORMS



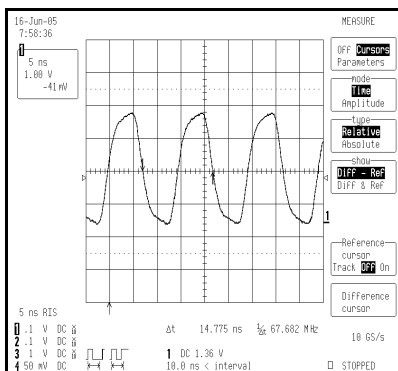
< On/Off 3.3V & MT1818 Reset >



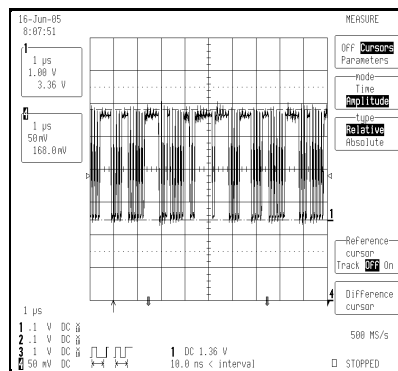
< XF01 : CF52.01 >



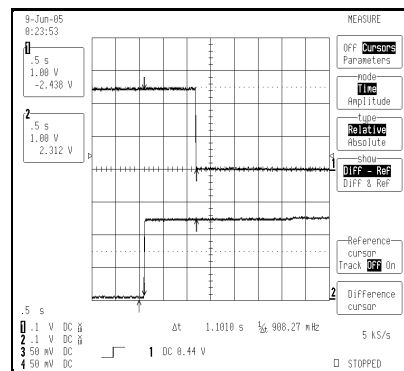
< CKE : ICF02.34 >



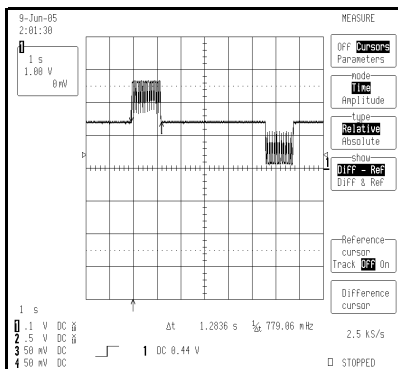
< CLK : ICF02.35 >



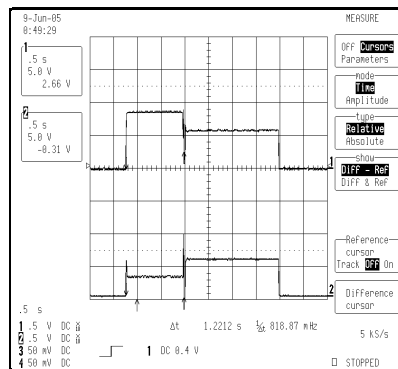
< FLASH ADDR : ICF04.25 >



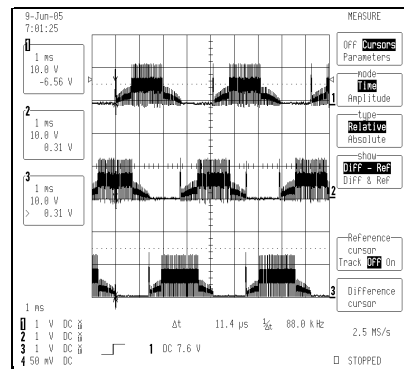
: Tray In/Out : ICF01.173&174 :



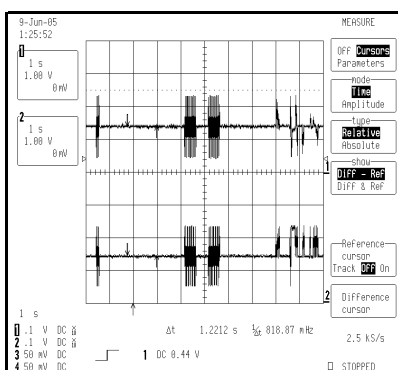
< LDIN(PWM3) : ICF08.26 >



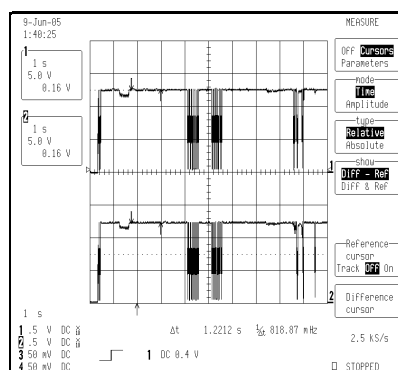
< LOAD± (TrayIn) : ICF08.49&50 >



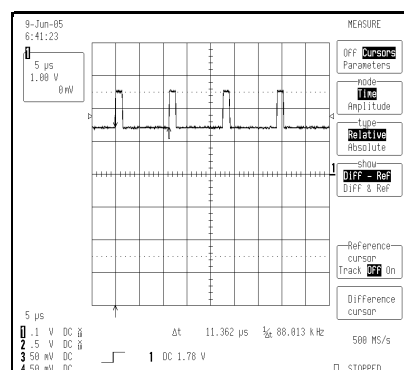
< UVW(DiscPlay) : PF03.9&10&11 >



< SLIN1&2 : ICF08.28&29 >



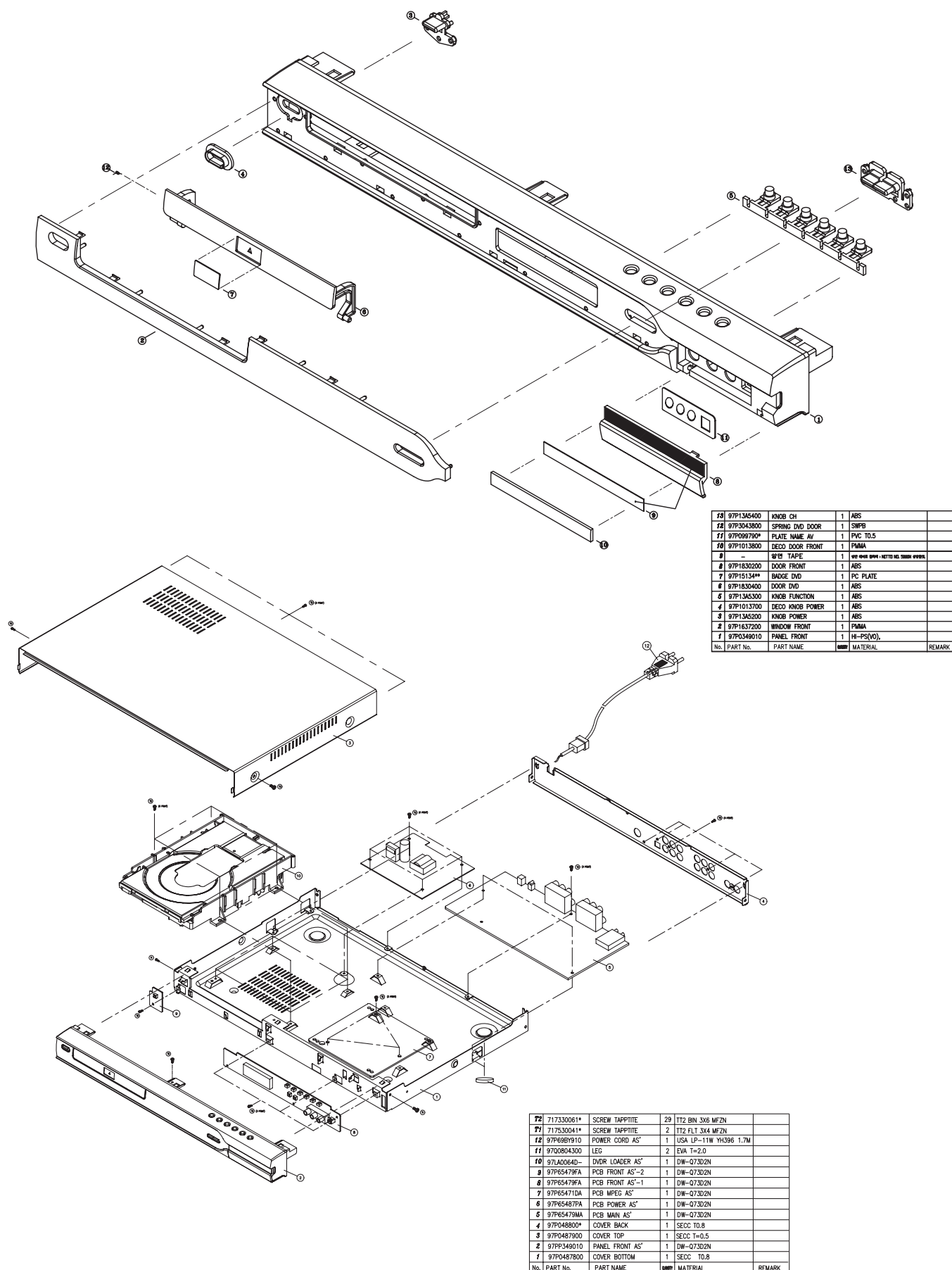
< SLO± 1 : ICF08.36&37 >



< SPIN(PWM5) : ICF01.14 >

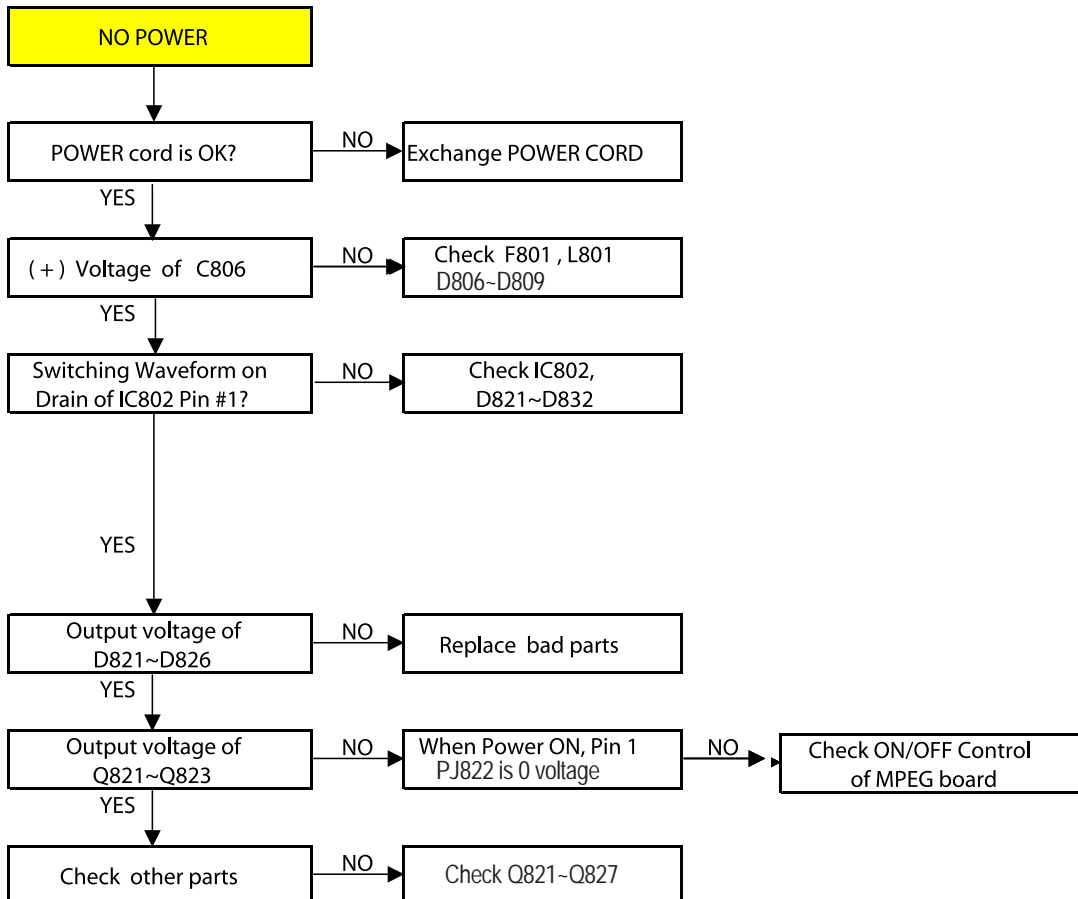


# DISASSEMBLY



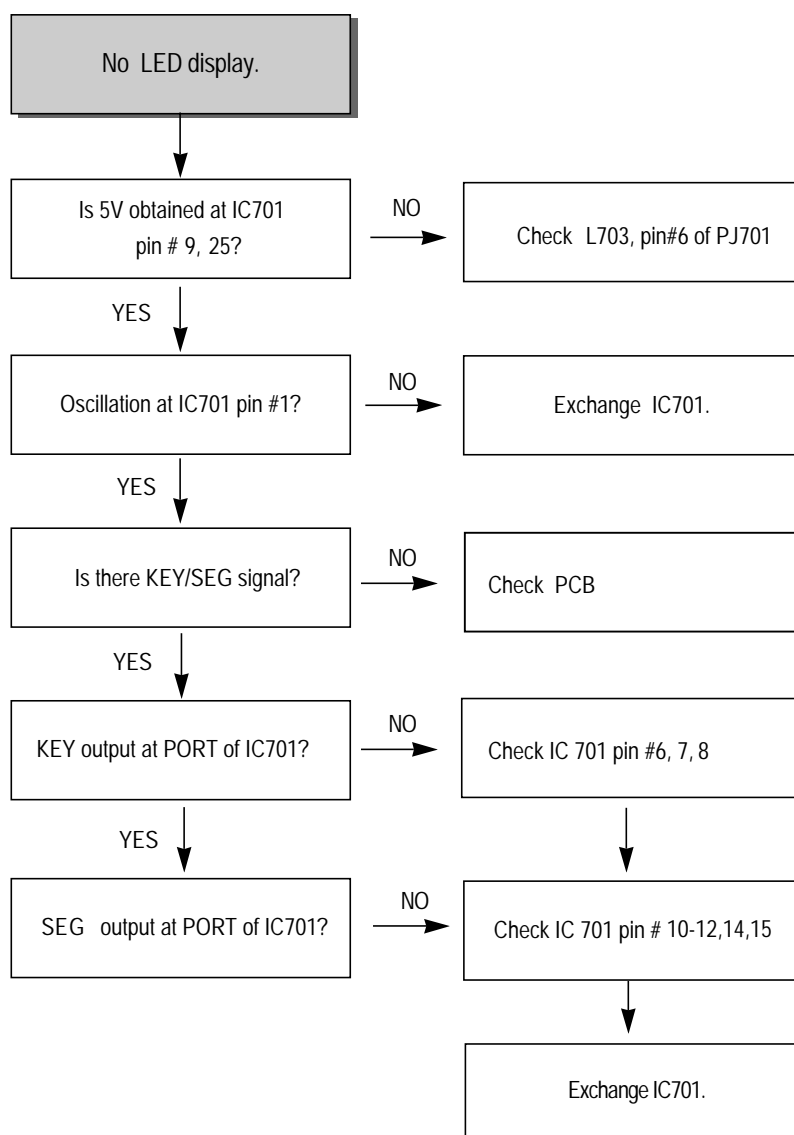
# TROUBLESHOOTING

## 1. POWER CIRCUIT

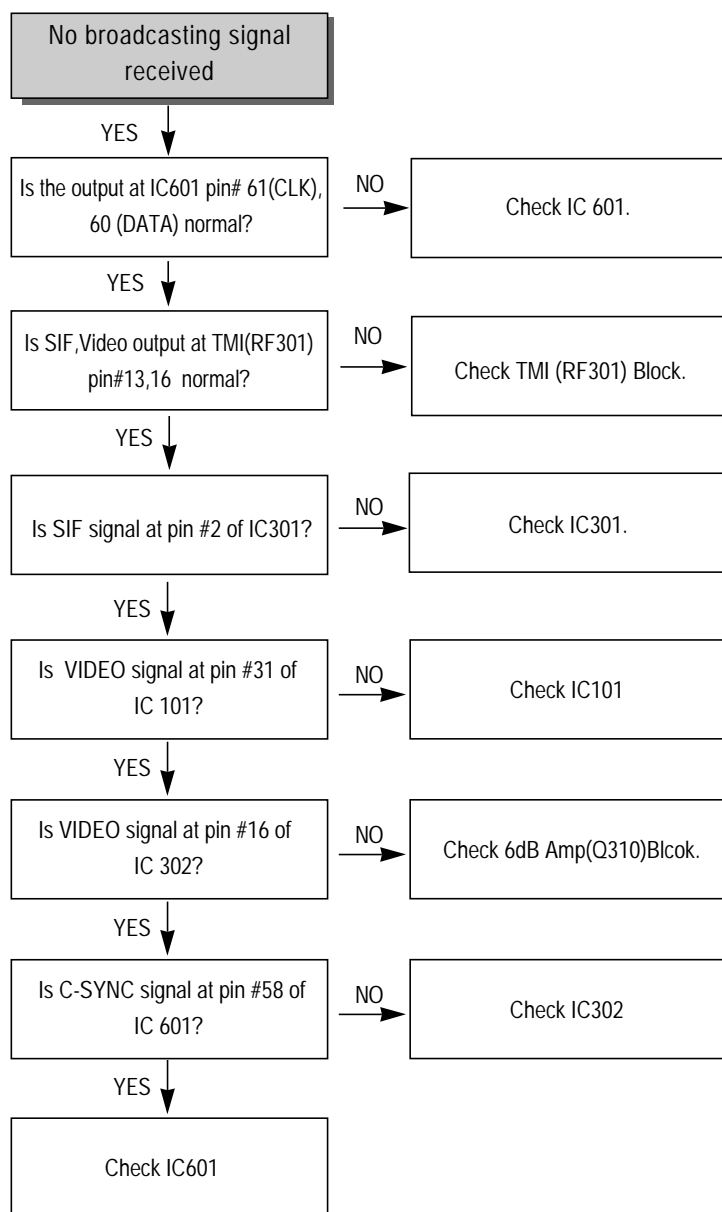


## 2. SYSTEM CIRCUIT

### A. LED DISPLAY

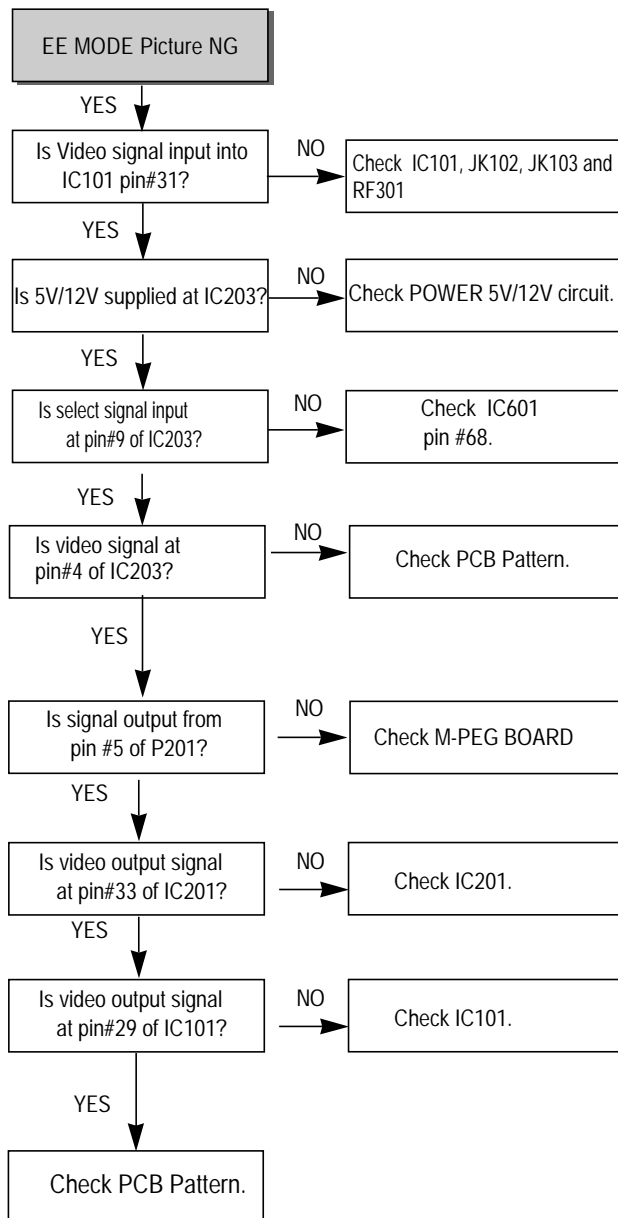


## B. No broadcasting signal received

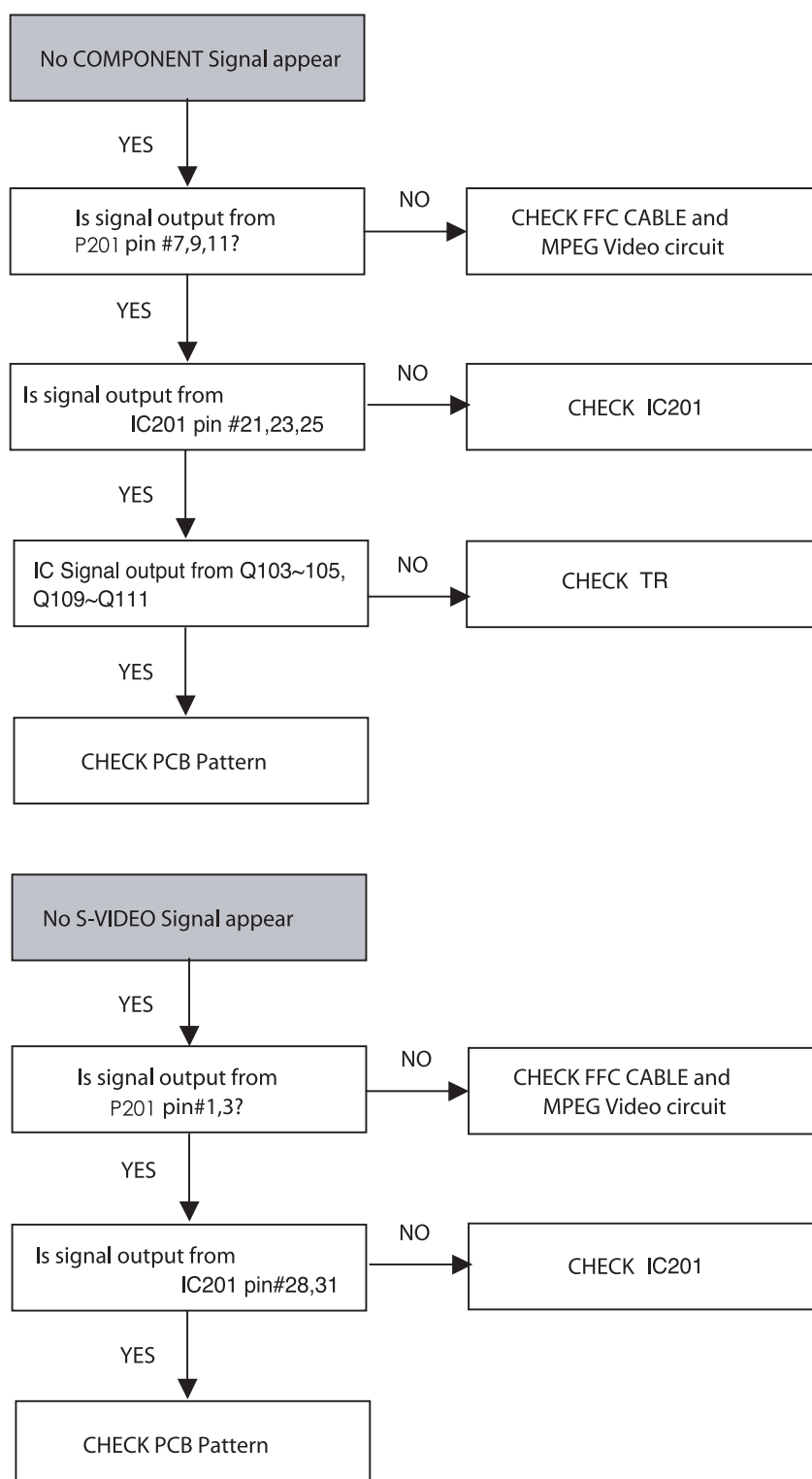


### 3. VIDEO circuit

#### A. EE screen doesn't appear

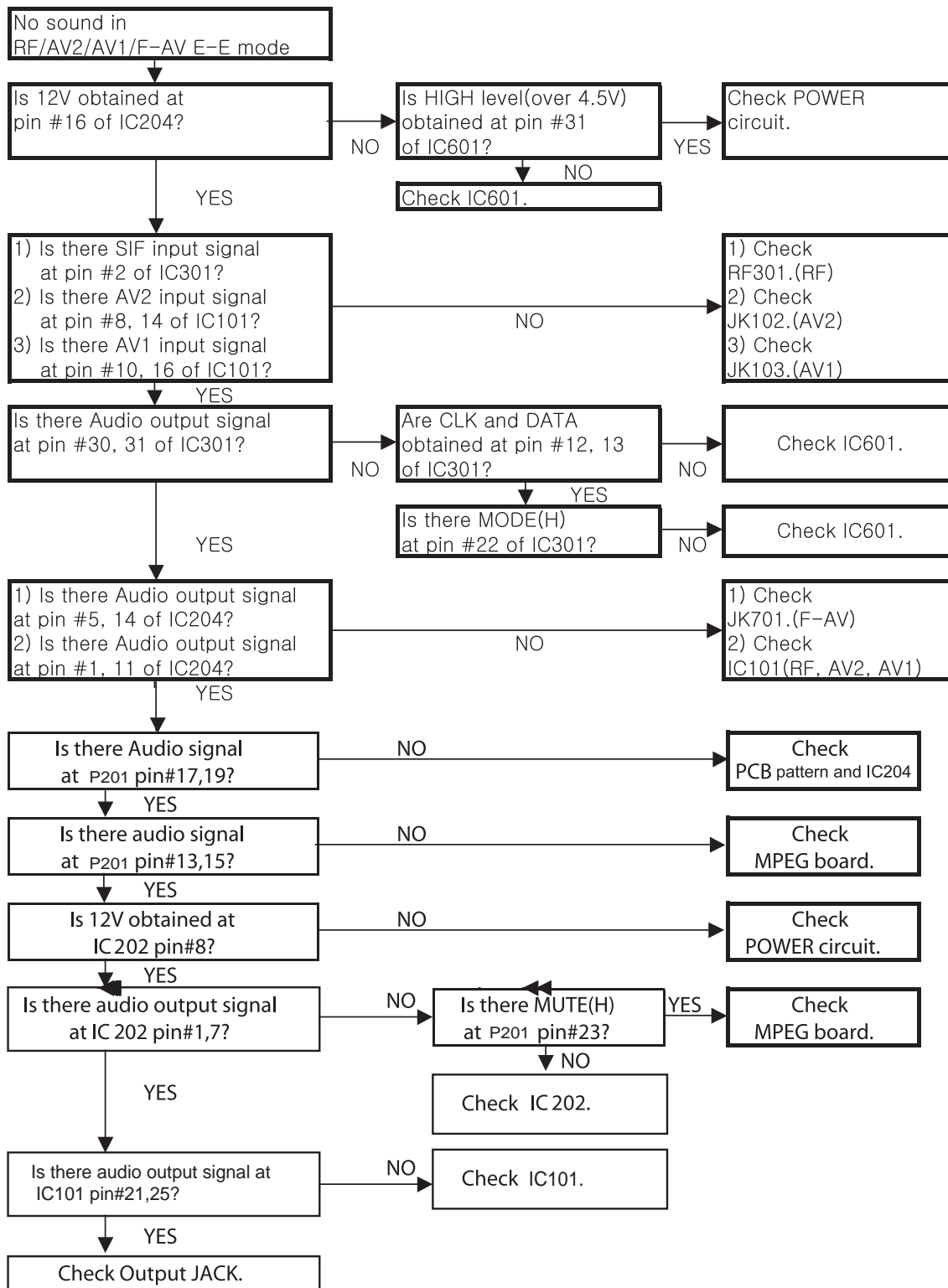


## B.DVD Picture (COMPONENT &amp; S-VIDEO) doesn't appear



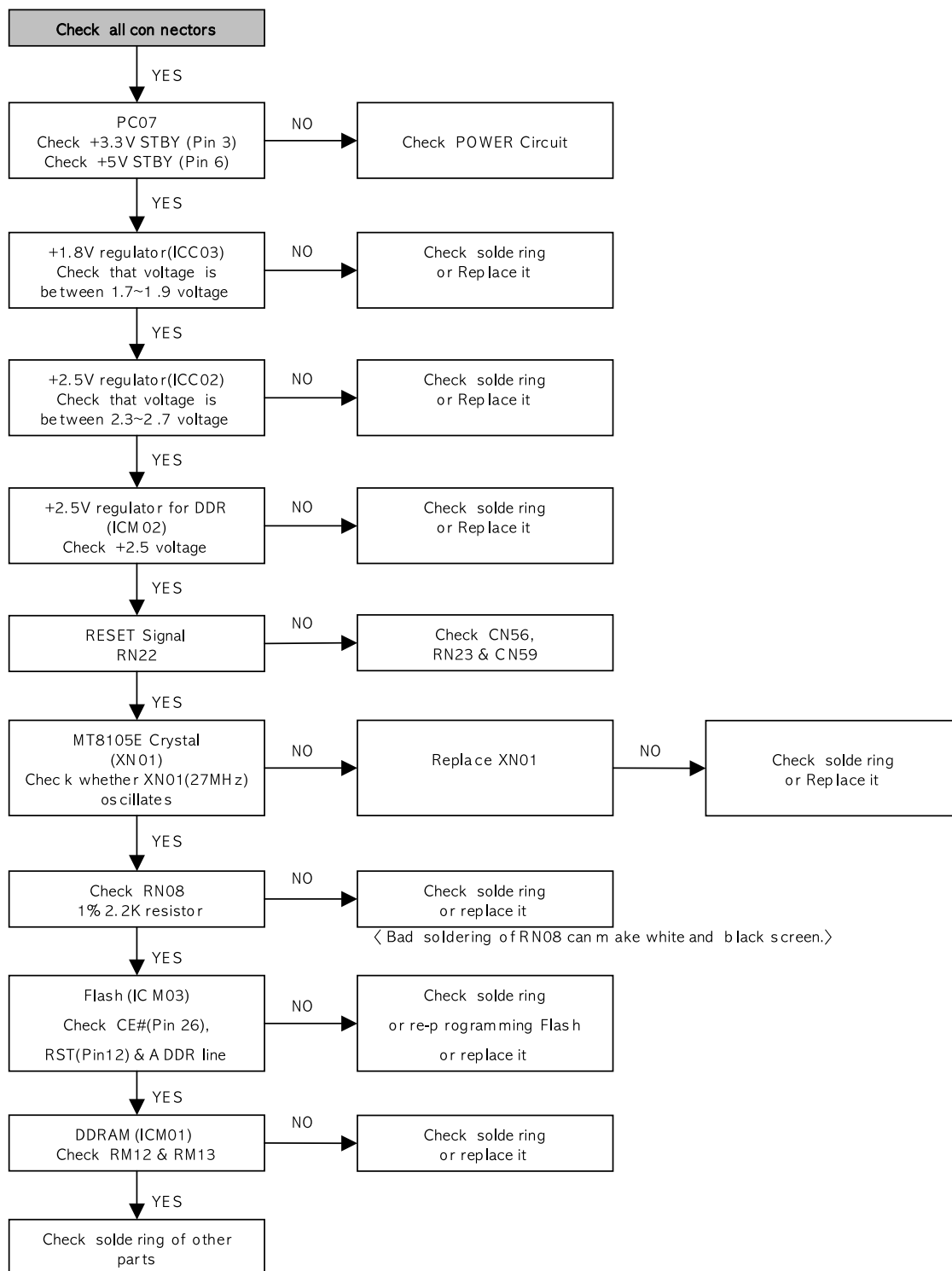
## 4. AUDIO

## A. No sound in E-E mode

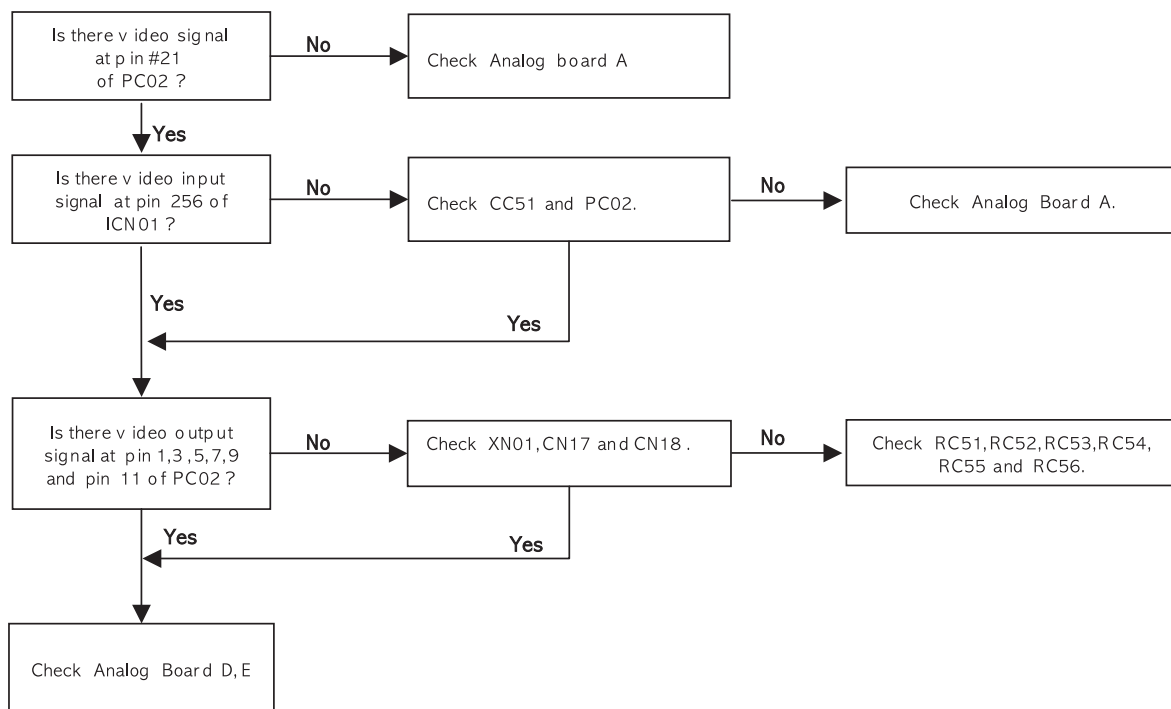
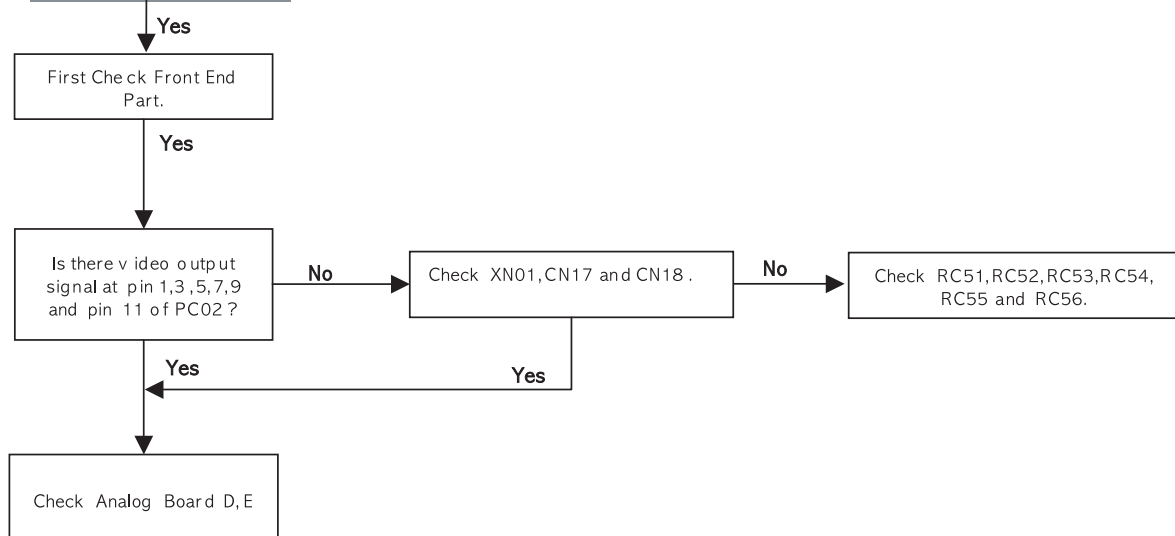


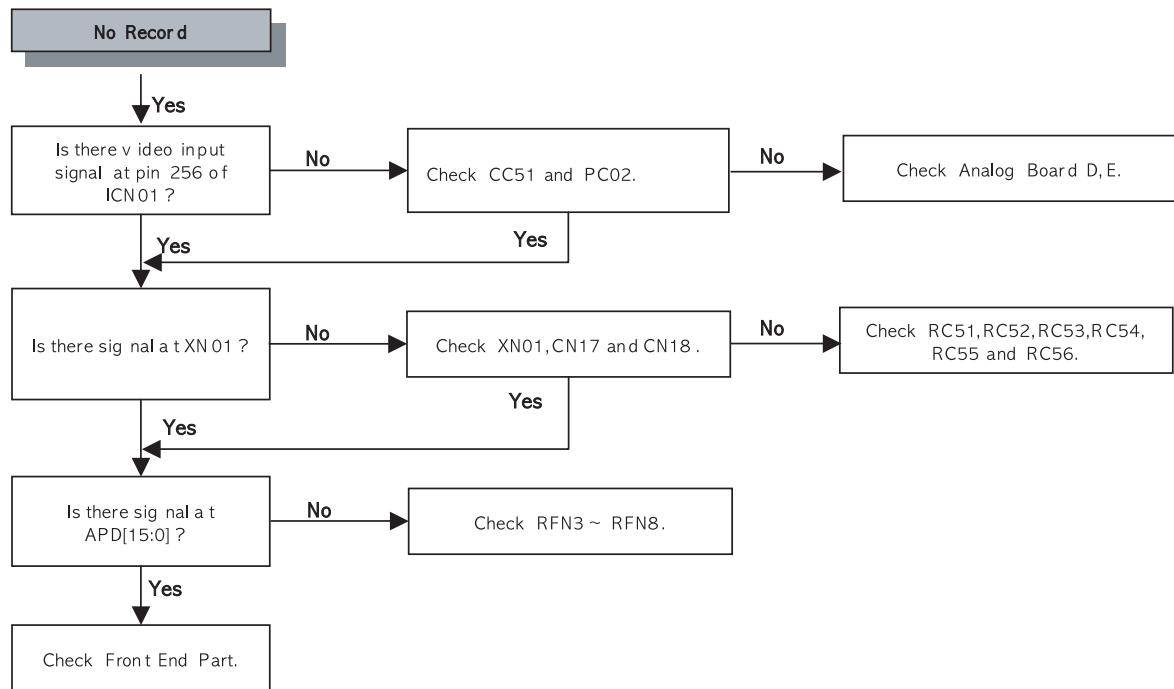
## 1. Mpeg Board

## a. M T8105E CODEC

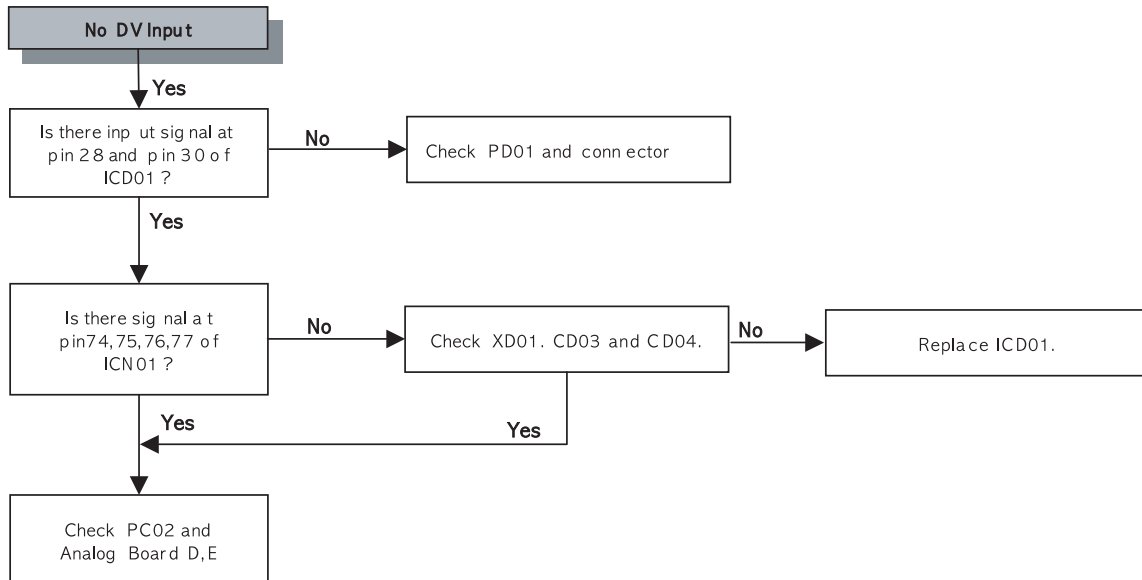




**No EE Mode Picture****B. No Playback Picture****No DVD Video signal.**

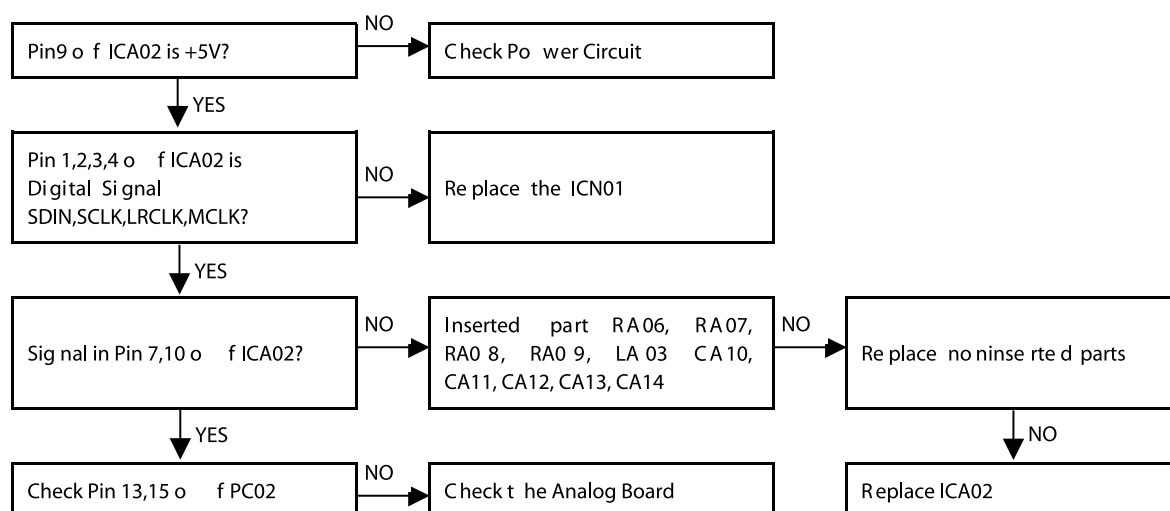


#### D. No DV Input

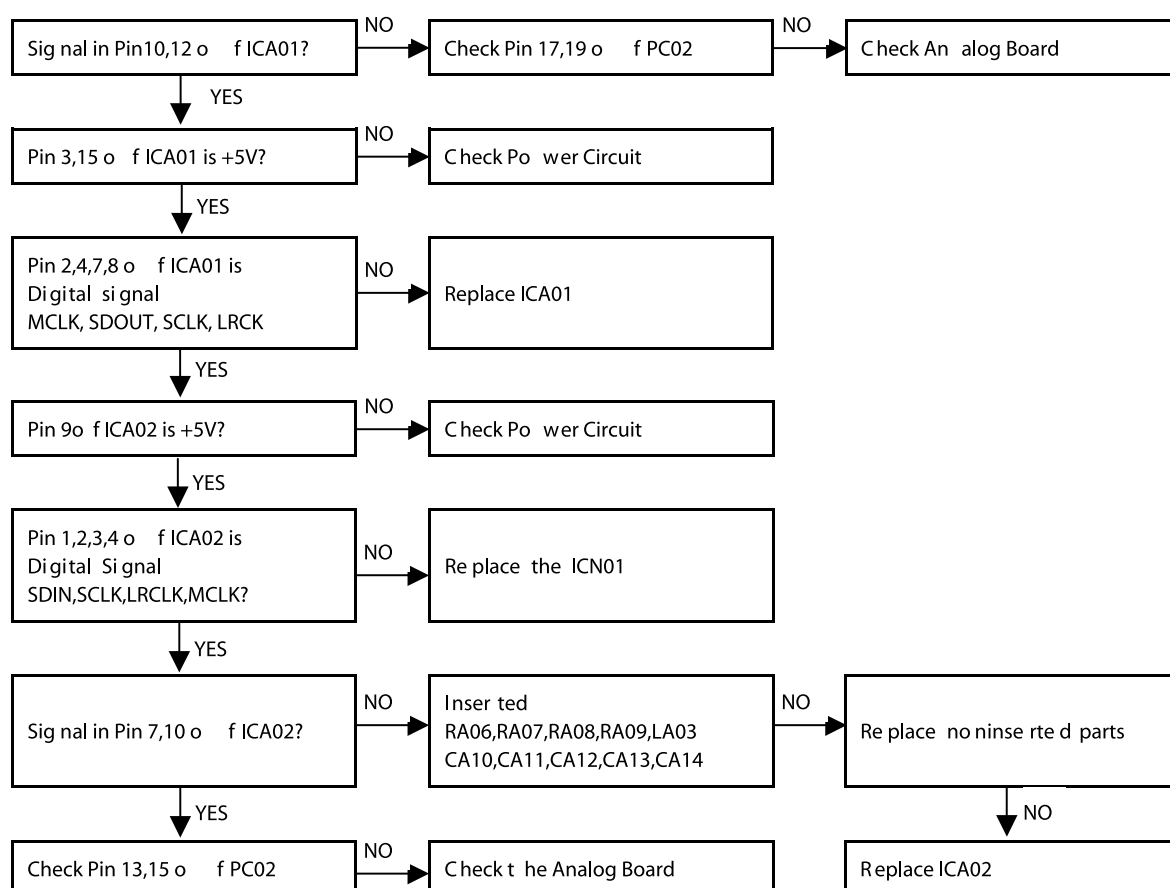


### 3. AUDIO CIRCUIT

#### A. No Sound in DVD Play mode and No VCR Sound



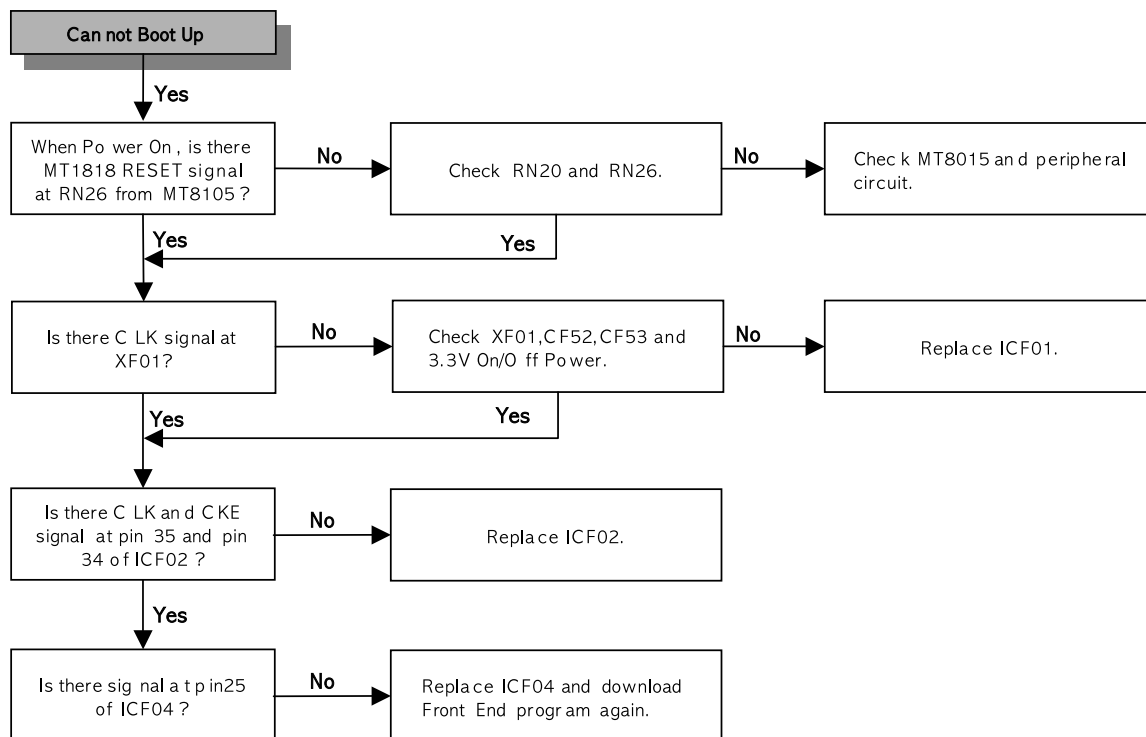
#### B. No Sound in EE mode



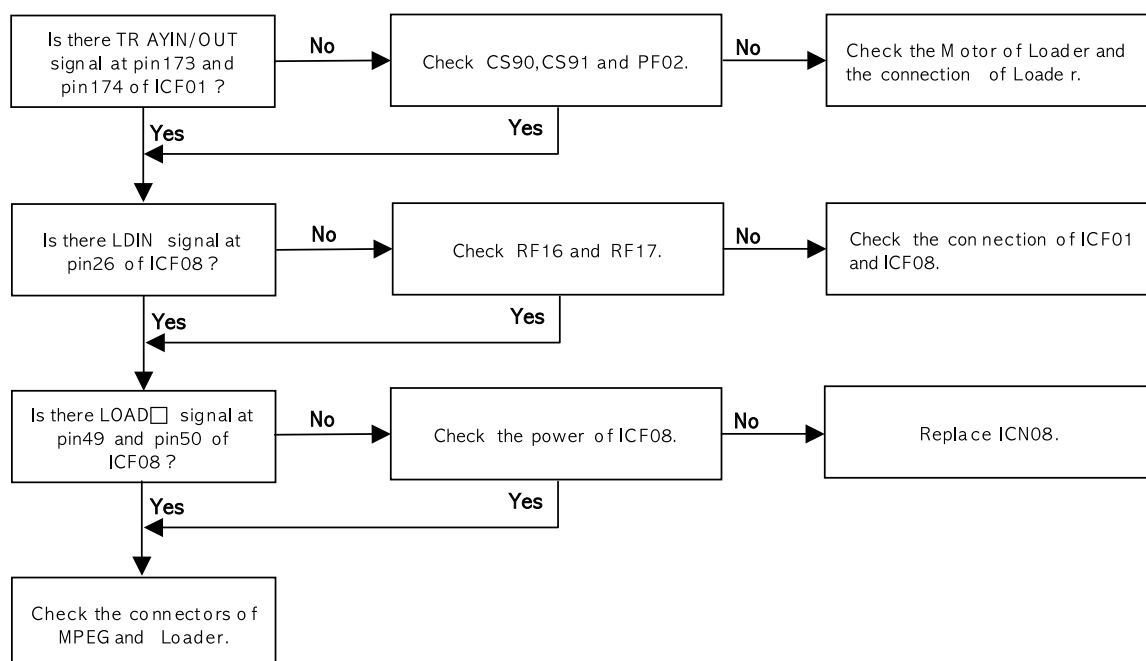
## 4. Front End Circuit

### A. Front End can not boot up

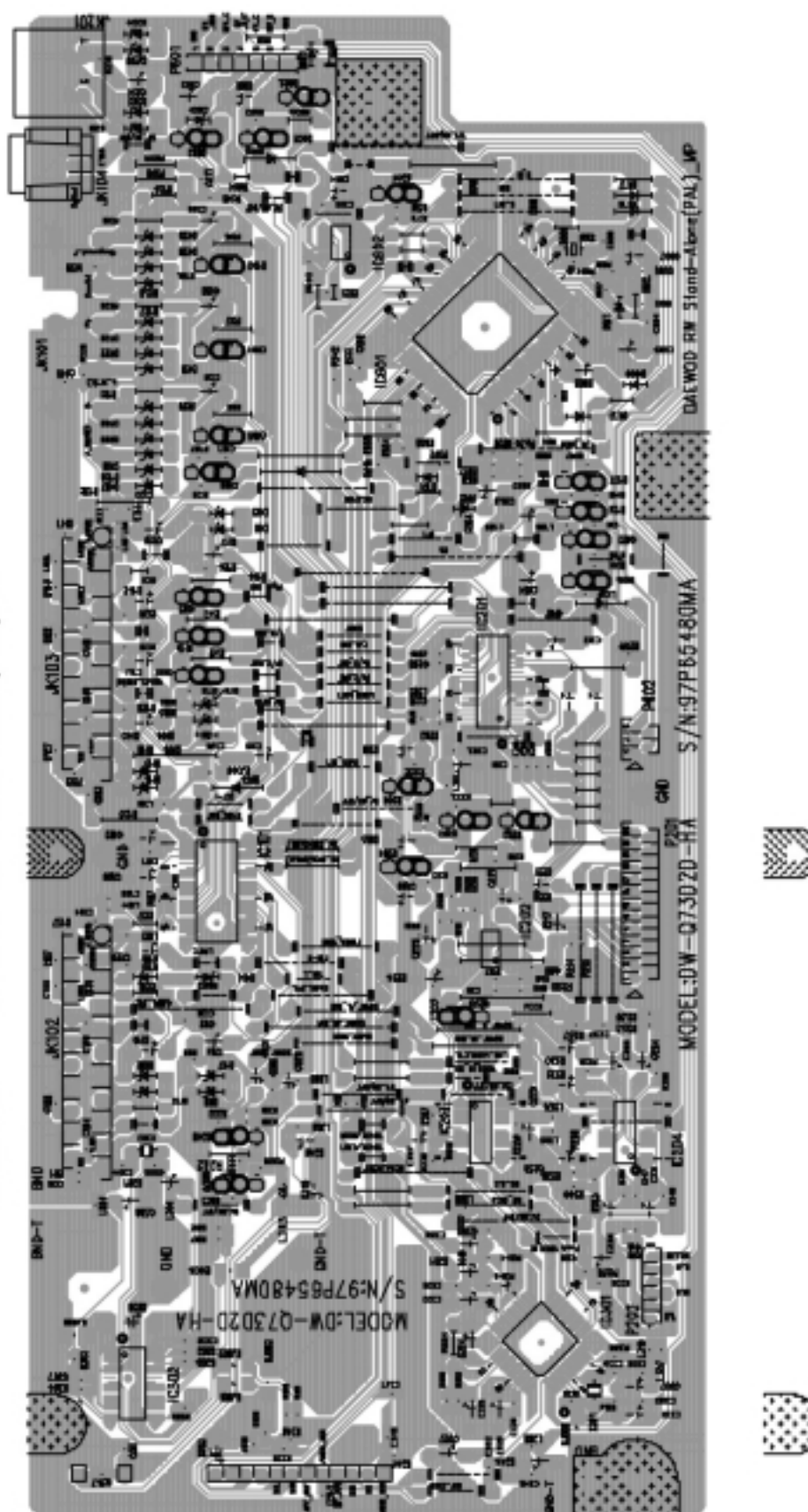
>> As soon as display RF Ch, Set hang up.

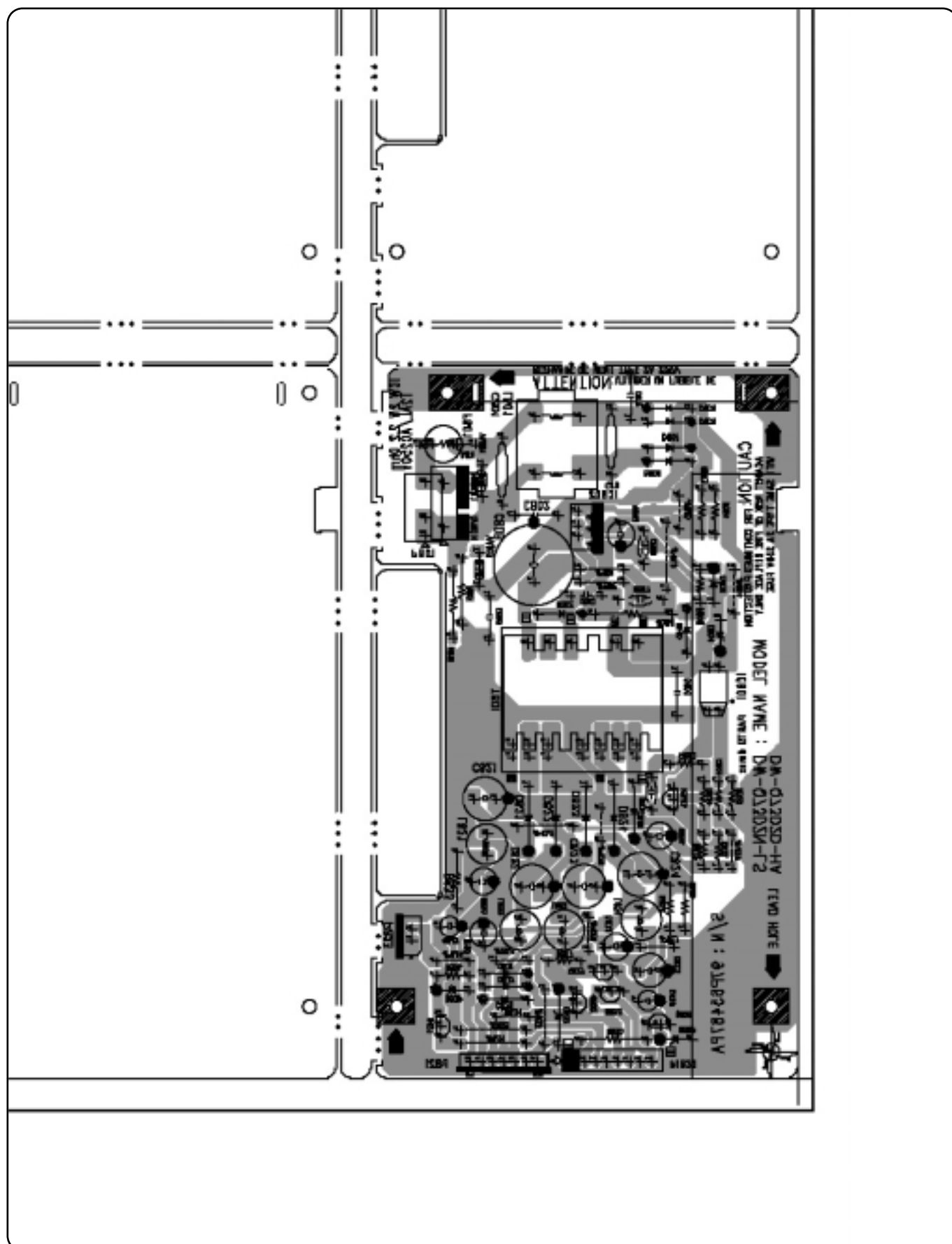


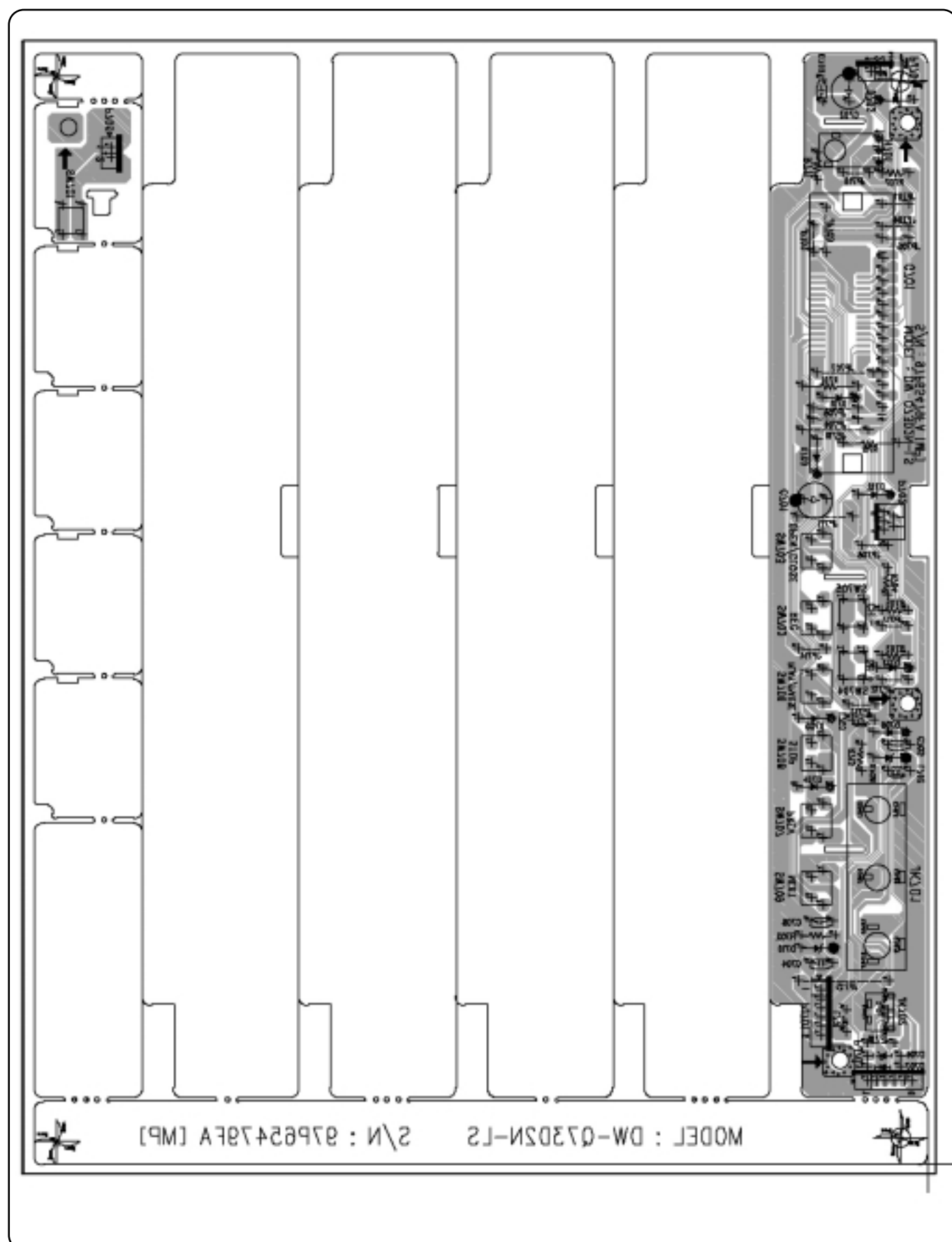
### B. Loader Tray cannot In/Out

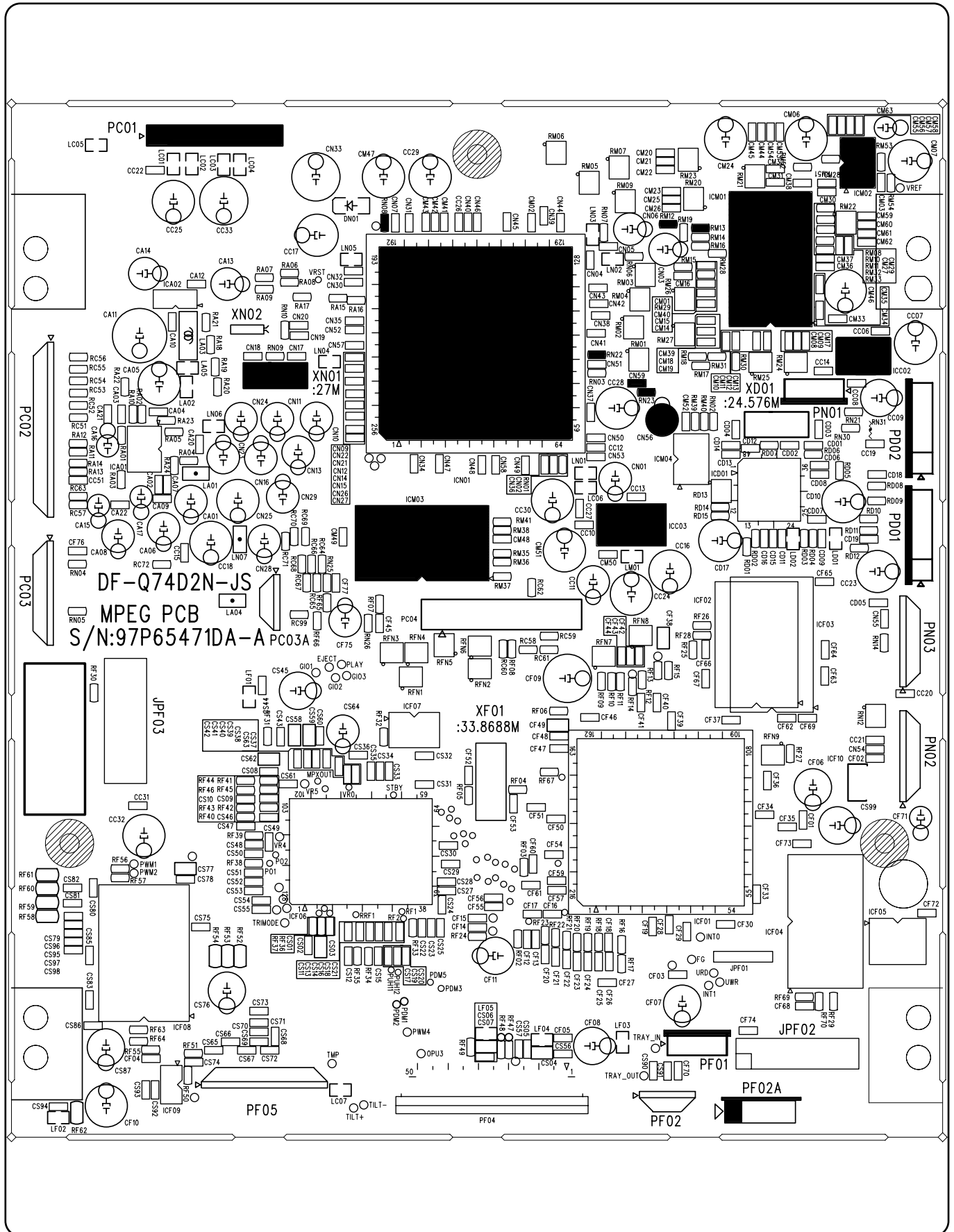


## PCB CIRCUIT BOARD

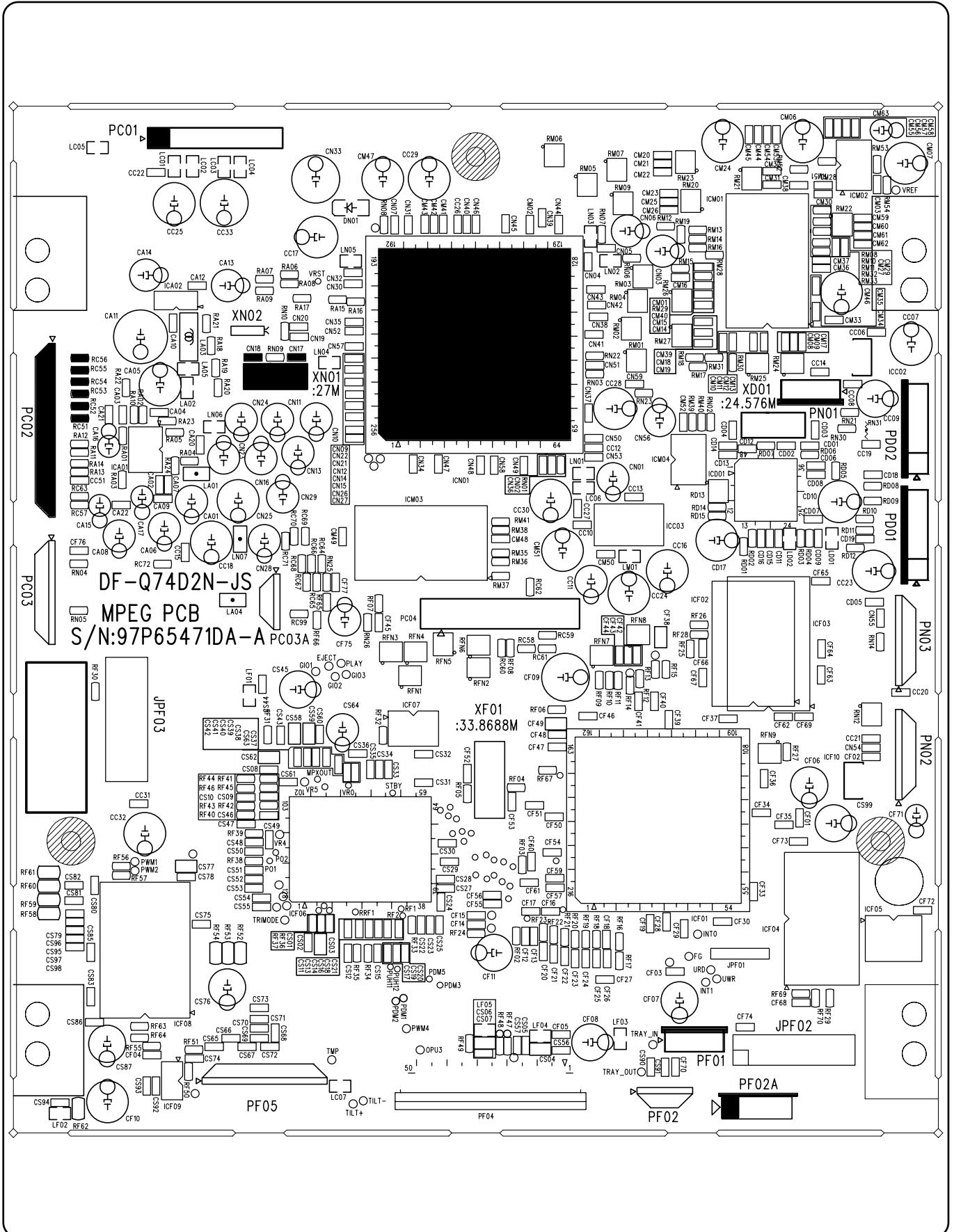


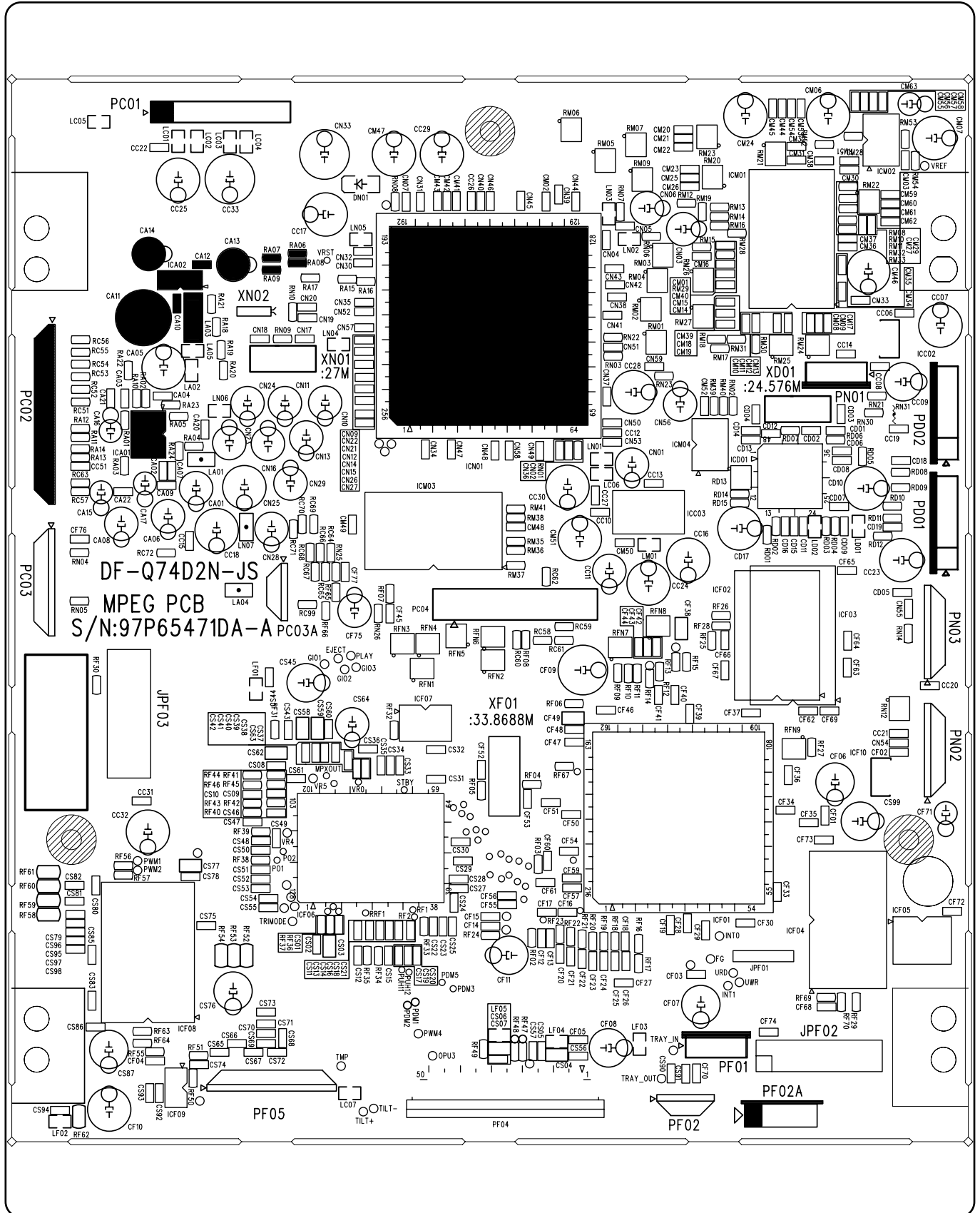


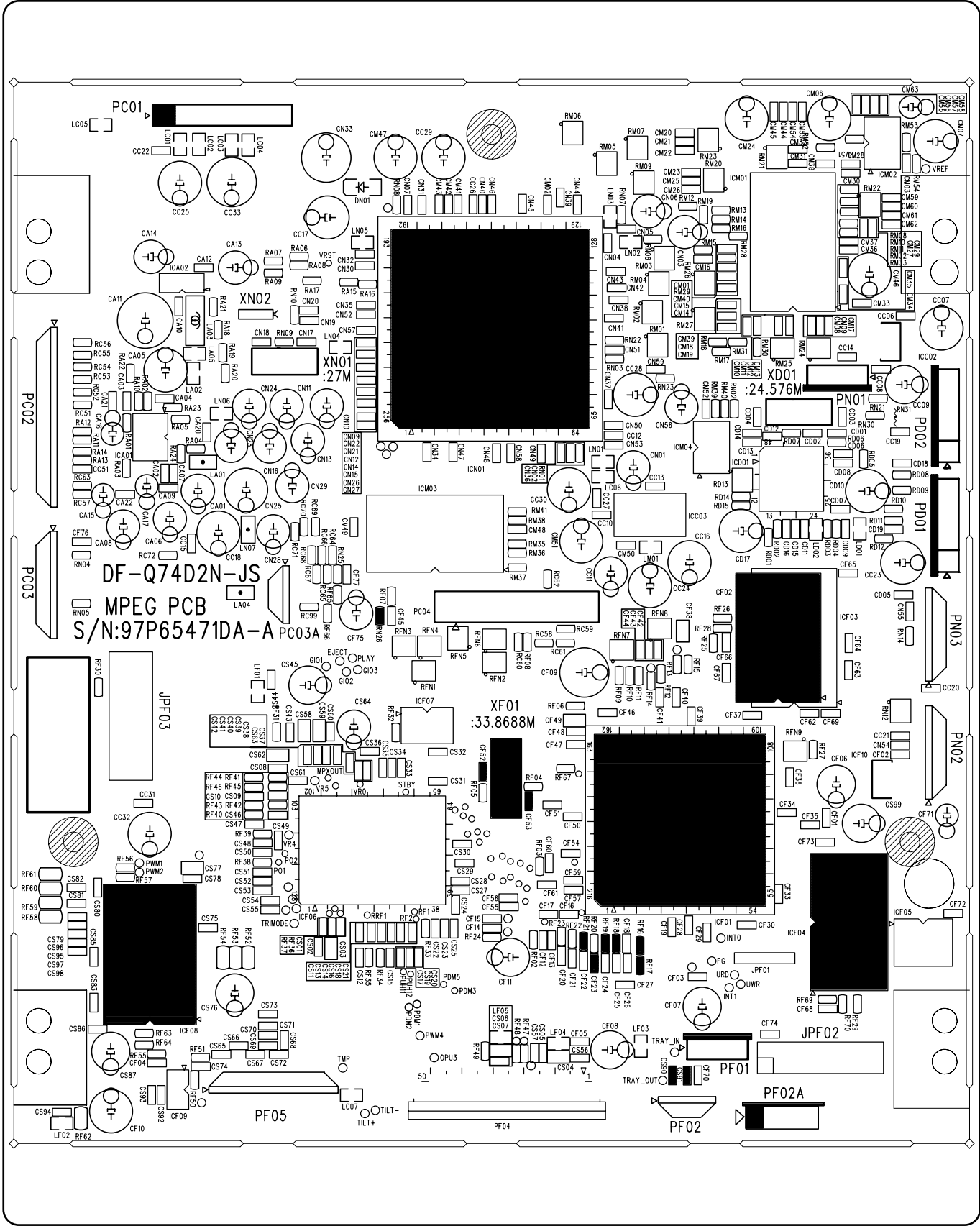












# ELECTRICAL PARTSLIST

✓ **Caution:** In this Service Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service information Center(<http://svc.dwe.co.kr>)

## 1. POWER

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK	LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
01	PVACPSD340	ACCESSROY AS	F342DY(BT:AAA)4		C108	HCFF105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608	
DP01	97P95600D0	MANUAL OWRNS	EC MODEL		C110	HCFF105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608	
DP02	97P881RP10	CABLE RF	PAL 1.0M		C111	HCFF105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608	
DP03	97P0424100	COVER ACCESSORY	LD-PE T0.05		C112	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
DP04	486A716202	BATTERY	AAA 1.5V(SUPERGARD)		C113	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
DP05	97P882TF12	CABLE SCART	SCART-SCART 21P 1.2M		C118	HCFF105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608	
02	PVPKCPN786	PACKING AS	DW-Q73D2N-LS(YW,ST)		C121	HCFF105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608	
CP01	97P4936100	PAD R/L	EPS(362X95X100)		C122	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
CP02	97P4809200	POLY BAG FOR SET	800X650XTO.5 PE-FOAM		C123	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
CP03	97P5060400	CARTON BOX	470X365X97(SW-4)		C124	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
CP04	47P4502205	LABEL SERIAL A	PAPER (42X12X1EA)		C125	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
03	PVMCASE621	CHASSIS MAIN AS	D-Q73D2D-HA		C126	HCQK510JBA	C CHIP CERA	50V CH 51PF J 1608	
A001	97P0487800	COVER BOTTOM	SECC T0.8		C127	HCQK510JBA	C CHIP CERA	50V CH 51PF J 1608	
A0011	97Q0804300	LEG	EVA T=2.0 (기,14.5 )		C133	HCQK201JBA	C CHIP CERA	50V CH 200PF J 1608	
A040	97P0487900	COVER TOP	SECC T0.5+PAINT		C134	HCQK201JBA	C CHIP CERA	50V CH 200PF J 1608	
A041	7173300611	SCREW TAPPTITE	TT2 BIN 3X6 MFZN		C135	HCQK201JBA	C CHIP CERA	50V CH 200PF J 1608	
A050	97P0488000	COVER BACK	SECC T0.8		C136	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
A051	7173300611	SCREW TAPPTITE	TT2 BIN 3X6 MFZN		C137	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
AG01A	7173300611	SCREW TAPPTITE	TT2 BIN 3X6 MFZN		C138	HCQK100JBA	C CHIP CERA	50V CH 10PF J 1608	
AJ01A	7173300611	SCREW TAPPTITE	TT2 BIN 3X6 MFZN		C139	HCQK100JBA	C CHIP CERA	50V CH 10PF J 1608	
AL01A	7173300611	SCREW TAPPTITE	TT2 BIN 3X6 MFZN		C143	HCQK201JBA	C CHIP CERA	50V CH 200PF J 1608	
AM01A	7173300611	SCREW TAPPTITE	TT2 BIN 3X6 MFZN		C144	HCQK201JBA	C CHIP CERA	50V CH 200PF J 1608	
AP01A	7173300611	SCREW TAPPTITE	TT2 BIN 3X6 MFZN		C145	HCQK201JBA	C CHIP CERA	50V CH 200PF J 1608	
D100	97P1RA2GA1	REMOCON HANDSET AS	VR-FA2G GY3401A AAA		C146	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
M01	97PP349010	PANEL FRONT	DW-Q73D2N-LS		C147	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
B010	97P3043800	SPRING DVD DOOR	SWPB		C148	HCQK100JBA	C CHIP CERA	50V CH 10PF J 1608	
M200	97LA0064D-	DECK TOTAL DVDR AS	DDM-8100		C149	HCQK100JBA	C CHIP CERA	50V CH 10PF J 1608	
PF04A	97P88F013S	CABLE FFC	0.5 R 50P 220MM		C150	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
NB09	97P88F014S	CABLE FFC	1.0 S1 5P 120MM F1		C151	HCQK201JBA	C CHIP CERA	50V CH 200PF J 1608	
NB12	97LA210200	TRAVERSE SONY AS	DDM-8000		C152	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	
M200A	7173300611	SCREW TAPPTITE	TT2 BIN 3X6 MFZN		C202	HCFF104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
P201A	97P88F011S	CABLE FFC	1.0 K 25P 60MM		C203	HCFF104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
P603A	97P88F010S	CABLE FFC	1.0 K 5P 60MM		C204	HCFF104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
P702A	97P88F012S	CABLE FFC	1.0 K 5P 170MM		C205	HCFF104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
PW01	97P69DY900	CORD POWER	EU KKP-419C YH396 1.7M		C206	HCFF104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
Z001	PVMPMSE621	PCB MAIN MANUAL AS	DW-Q73D2D-HA		C207	HCFF104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
JK101	97P6318130	JACK PIN	DPAM-0219		C208	HCFF104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
JK102	4859101280	JACK SCART	DSA9-9515 1LAYER		C209	HCFF104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
JK103	4859101280	JACK SCART	DSA9-9515 1LAYER		C213	HCFF104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
JK201	97P6318010	JACK PIN(S-VHS)	DJAE-9812		C215	HRFS000-BA	R CHIP	1/16 0 OHM J 1608	
P201	97P62G08ER	CONN FFC	GF102-25S-TS 25P ST		C218	HCBK391KBA	C CHIP CERA	50V X7R 390PF K 1608	
P202	97P62A23B6	CONN WAFER	440054-6 ST PLUG 6P		C219	HCBK391KBA	C CHIP CERA	50V X7R 390PF K 1608	
P601	97P885X252	CONN AS	7H-7S 110MM		C222	HCBK391KBA	C CHIP CERA	50V X7R 390PF K 1608	
P602	97P62G08E5	CONN FFC	GF102-05S-TS 05P ST		C223	HCBK391KBA	C CHIP CERA	50V X7R 390PF K 1608	
RF301	97P7623200	TUNER 3 IN 1	LGTBI-SLO4H		C228	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
X301	5XJ18R4LAE	CRYSTAL QUARTZ	HC-49/S 18.43200MHZ 30PP		C238	HCFF104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
X302	5XJ17R7LAD	CRYSTAL QUARTZ	HC-49/S 17.73447MHZ 25PPM		C302	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
X601	5XJ17R7LAD	CRYSTAL QUARTZ	HC-49/S 17.73447MHZ 25PPM		C303	HCFF105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608	
Z0011	PVMPJ1E621	MAIN CHIP MOUNT BT AS	DW-Q73D2D-HA		C304	HCQK150JBA	C CHIP CERA	50V CH 15PF J 1608	
C101	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		C305	HCQK150JBA	C CHIP CERA	50V CH 15PF J 1608	
C103	HCFF104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		C307	HCBK563KBA	C CHIP CERA	50V X7R 0.056MF K 1608	
C104	HCFF104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		C308	HCFF105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608	
C107	HCFF105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608		C311	HCFF104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	

## ELECTRICAL PARTSLIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK	LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
C312	HCQK100JBA	C CHIP CERA	50V CH 10PF J 1608		L309	HLB600M06A	L CHIP BEAD	60 OHM MPZ 1608	
C319	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		L310	HLB600M06A	L CHIP BEAD	60 OHM MPZ 1608	
C323	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		R102	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
C326	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		R104	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
C328	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		R109	HRFS750JBA	R CHIP	1/16 75 OHM J 1608	
C330	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		R111	HRFS560JBA	R CHIP	1/16 56 OHM J 1608	
C332	HCQK240JBA	C CHIP CERA	50V CH 24PF J 1608		R112	HRFS560JBA	R CHIP	1/16 56 OHM J 1608	
C333	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		R113	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
C334	HCQK309CBA	C CHIP CERA	CH 50V 3PF C 1608		R114	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
C335	HCQK309CBA	C CHIP CERA	CH 50V 3PF C 1608		R115	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
C336	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		R122	HRFS680JBA	R CHIP	1/16 68 OHM J 1608	
C338	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608		R123	HRFS680JBA	R CHIP	1/16 68 OHM J 1608	
C339	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608		R125	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
C341	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608		R128	HRFS750JBA	R CHIP	1/16 75 OHM J 1608	
C342	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608		R129	HRFS750JBA	R CHIP	1/16 75 OHM J 1608	
C343	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		R130	HRFS750JBA	R CHIP	1/16 75 OHM J 1608	
C345	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		R133	HRFS473JBA	R CHIP	1/16 47K OHM J 1608	
C347	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		R135	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
C349	HCBK332KBA	C CHIP CERA	50V X7R 3300PF K 1608		R137	HRFS221JBA	R CHIP	1/16 220 OHM J 1608	
C350	HCBK332KBA	C CHIP CERA	50V X7R 3300PF K 1608		R140	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
C604	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		R141	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
C606	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		R145	HRFS000-BA	R CHIP	1/16 0 OHM J 1608	
C608	HCQK150JBA	C CHIP CERA	50V CH 15PF J 1608		R146	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
C609	HCQK150JBA	C CHIP CERA	50V CH 15PF J 1608		R202	HRFS750JBA	R CHIP	1/16 75 OHM J 1608	
C610	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		R210	HRFS750JBA	R CHIP	1/16 75 OHM J 1608	
C613	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		R211	HRFS750JBA	R CHIP	1/16 75 OHM J 1608	
IC101	1MM1443XJE	IC CHIP AV SW	MM1443XJBE 34PIN SSOP REEL		R213	HRFS333JBA	R CHIP	1/16 33K OHM J 1608	
IC201	1LA73054-E	IC CHIP VIDEO DRIVER	LA73054 6 CHANNEL Y/C-MAX 7/14MHZ LPF 36PIN		R214	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
IC202	1KA4558D	IC OP AMP	KA4558D(8 SOP)		R215	HRFS113JBA	R CHIP	1/16 11K OHM J 1608	
IC203	1HEF4053BD	IC CHIP	HEF4053B		R216	HRFS751JBA	R CHIP	1/16 750 OHM J 1608	
IC204	1HEF4052BD	IC CHIP SW	HEF4052B		R217	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
IC301	1MSP3407G3	IC A2	MSP3407G-V3		R218	HRFS223JBA	R CHIP	1/16 22K OHM J 1608	
IC302	1LC74793	IC CHIP VPS	LC74793JM		R220	HRFS471JBA	R CHIP	1/16 470 OHM J 1608	
IC601	168KT89ZTS	IC MICOM	M3776AMCH-1D8GP		R221	HRFS471JBA	R CHIP	1/16 470 OHM J 1608	
IC602	14CAT2416J	IC CHIP EEPROM	CAT24WC16J(16K SOP)		R222	HRFS471JBA	R CHIP	1/16 470 OHM J 1608	
L101	HLB600M06A	L CHIP BEAD	60 OHM MPZ 1608		R226	HRFS333JBA	R CHIP	1/16 33K OHM J 1608	
L102	HRFS331JBA	R CHIP	1/16 330 OHM J 1608		R228	HRFS113JBA	R CHIP	1/16 11K OHM J 1608	
L103	HRFS331JBA	R CHIP	1/16 330 OHM J 1608		R229	HRFS751JBA	R CHIP	1/16 750 OHM J 1608	
L104	HRFS331JBA	R CHIP	1/16 330 OHM J 1608		R230	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
L105	HRFS331JBA	R CHIP	1/16 330 OHM J 1608		R231	HRFS223JBA	R CHIP	1/16 22K OHM J 1608	
L106	HLB600M06A	L CHIP BEAD	60 OHM MPZ 1608		R232	HRFS471JBA	R CHIP	1/16 470 OHM J 1608	
L107	HRFS000-BA	R CHIP	1/16 0 OHM J 1608		R235	HRFS242JBA	R CHIP	1/16 2.4K OHM J 1608	
L108	HRFS000-BA	R CHIP	1/16 0 OHM J 1608		R236	HRFS242JBA	R CHIP	1/16 2.4K OHM J 1608	
L109	HLB600M06A	L CHIP BEAD	60 OHM MPZ 1608		R237	HRFS242JBA	R CHIP	1/16 2.4K OHM J 1608	
L201	HLB600M06A	L CHIP BEAD	60 OHM MPZ 1608		R238	HRFS242JBA	R CHIP	1/16 2.4K OHM J 1608	
L203	HLB600M06A	L CHIP BEAD	60 OHM MPZ 1608		R239	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
L204	HLB600M06A	L CHIP BEAD	60 OHM MPZ 1608		R240	HRFS203JBA	R CHIP	1/16 20K OHM J 1608	
L205	HLB600M06A	L CHIP BEAD	60 OHM MPZ 1608		R244	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
L301	HLB600M06A	L CHIP BEAD	60 OHM MPZ 1608		R245	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
L303	5CPX229J2T	COIL PEAKING	2.2UH(RED -)		R247	HRFS474JBA	R CHIP	1/16 470K OHM J 1608	
L304	HLB600M06A	L CHIP BEAD	60 OHM MPZ 1608		R248	HRFS474JBA	R CHIP	1/16 470K OHM J 1608	
L305	HLB600M06A	L CHIP BEAD	60 OHM MPZ 1608		R249	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
L306	HLB600M06A	L CHIP BEAD	60 OHM MPZ 1608		R250	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
L307	HLB600M06A	L CHIP BEAD	60 OHM MPZ 1608		R251	HRFS474JBA	R CHIP	1/16 470K OHM J 1608	
L308	HLB600M06A	L CHIP BEAD	60 OHM MPZ 1608		R252	HRFS474JBA	R CHIP	1/16 470K OHM J 1608	

# ELECTRICAL PARTSLIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK	LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
R253	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		C115	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	
R258	HRFS203JBA	R CHIP	1/16 20K OHM J 1608		C116	CEXF1A221V	C ELECTRO	10V RSS 220MF	
R259	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608		C117	CEXF1A221V	C ELECTRO	10V RSS 220MF	
R301	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		C119	CEXF1A221V	C ELECTRO	10V RSS 220MF	
R302	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		C120	CEXF1A221V	C ELECTRO	10V RSS 220MF	
R303	HRFS272JBA	R CHIP	1/16 2.7K OHM J 1608		C128	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R304	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		C129	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R305	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		C130	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R306	HRFS562JBA	R CHIP	1/16 5.6K OHM J 1608		C131	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R307	HRFS914JBA	R CHIP	1/16W 910K OHM J 1608		C140	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	
R310	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608		C141	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	
R311	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		C142	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	
R313	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		C154	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R328	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		C201	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
R329	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		C210	CEXF1H100A	C ELECTRO	50V RSM 10MF (5X7) TP	
R330	HRFS183JBA	R CHIP	1/16 18K OHM J 1608		C211	CEXF1H100A	C ELECTRO	50V RSM 10MF (5X7) TP	
R331	HRFS821JBA	R CHIP	1/16 820 OHM J 1608		C212	CEXF1C101A	C ELECTRO	16V RSM 100MF (6.3X7) TP	
R333	HRFS822JBA	R CHIP	1/16 8.2K OHM J 1608		C214	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	
R335	HRFS562JBA	R CHIP	1/16 5.6K OHM J 1608		C216	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R336	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		C217	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
R339	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		C220	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
R340	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		C221	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
R341	HRFS512JBA	R CHIP	1/16 5.1K OHM J 1608		C224	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R342	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		C225	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
R343	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		C226	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R344	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		C227	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R602	HRFS202JBA	R CHIP	1/16 2K OHM J 1608		C229	CEXF1H100A	C ELECTRO	50V RSM 10MF (5X7) TP	
R611	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608		C230	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R613	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		C231	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R614	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		C232	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R616	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		C233	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R617	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		C234	CEXF1H100A	C ELECTRO	50V RSM 10MF (5X7) TP	
R618	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		C235	CEXF1H100A	C ELECTRO	50V RSM 10MF (5X7) TP	
R621	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608		C239	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R628	HRFS000-BA	R CHIP	1/16 0 OHM J 1608		C301	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R629	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		C306	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	
R632	HRFS000-BA	R CHIP	1/16 0 OHM J 1608		C310	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R634	HRFS000-BA	R CHIP	1/16 0 OHM J 1608		C320	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R635	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		C321	CEXF1H100A	C ELECTRO	50V RSM 10MF (5X7) TP	
R636	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		C322	CEXF1H100A	C ELECTRO	50V RSM 10MF (5X7) TP	
R640	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608		C324	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
RJ001	HRF8000-EA	R CHIP	1/8 0 OHM 3216		C325	CEXF1H100A	C ELECTRO	50V RSM 10MF (5X7) TP	
RJ002	HRF8000-EA	R CHIP	1/8 0 OHM 3216		C327	CEXF1H100A	C ELECTRO	50V RSM 10MF (5X7) TP	
RJ003	HRF8000-EA	R CHIP	1/8 0 OHM 3216		C329	CEXF1H100A	C ELECTRO	50V RSM 10MF (5X7) TP	
RJ004	HRF8000-EA	R CHIP	1/8 0 OHM 3216		C331	CEXF1H100A	C ELECTRO	50V RSM 10MF (5X7) TP	
RJ005	HRF8000-EA	R CHIP	1/8 0 OHM 3216		C337	CEXF1H100A	C ELECTRO	50V RSM 10MF (5X7) TP	
RJ006	HRF8000-EA	R CHIP	1/8 0 OHM 3216		C340	CEXF1H478A	C ELECTRO	50V RSM 0.47MF 4X7	
RJ007	HRFS000-BA	R CHIP	1/16 0 OHM J 1608		C344	CEXE1H470A	C ELECTRO	50V RS 47MF 8X11.5	
RJ008	HRF8000-EA	R CHIP	1/8 0 OHM 3216		C346	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	
Z0012	PVMPJRE621	PCB MAIN RADIAL AS	DW-Q73D2D-HA		C351	CEXF1H100A	C ELECTRO	50V RSM 10MF (5X7) TP	
C102	CEXF1C101A	C ELECTRO	16V RSM 100MF (6.3X7) TP		C352	CEXF1H100A	C ELECTRO	50V RSM 10MF (5X7) TP	
C105	CEXF1H100A	C ELECTRO	50V RSM 10MF (5X7) TP		C601	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C106	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		C602	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C109	CEXF1H100A	C ELECTRO	50V RSM 10MF (5X7) TP		C603	CEXF1A221V	C ELECTRO	10V RSS 220MF	
C114	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP		C605	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	

## ELECTRICAL PARTSLIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK	LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
C607	CEXF1C101A	C ELECTRO	16V RSM 100MF (6.3X7) TP		D131	DZN4148 -	DIODE	1N4148 AUTO 52MM	
C614	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		D201	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)	
C620	CEXF1A221V	C ELECTRO	10V RSS 220MF		D202	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)	
Q101	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)		D203	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)	
Q102	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)		D204	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)	
Q103	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)		D602	DZUZ33BSB-	DIODE ZENER	UZ-33BSB(30.32-31.38V)	
Q104	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)		D603	DZN4003 -	DIODE	IN4003	
Q105	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)		D604	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)	
Q106	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)		D609	DZN4148 -	DIODE	1N4148 AUTO 52MM	
Q107	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)		D610	DZN4148 -	DIODE	1N4148 AUTO 52MM	
Q108	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)		D611	DZN4148 -	DIODE	1N4148 AUTO 52MM	
Q109	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)		D612	DZN4148 -	DIODE	1N4148 AUTO 52MM	
Q110	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)		D613	DZN4148 -	DIODE	1N4148 AUTO 52MM	
Q111	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)		D614	DZN4148 -	DIODE	1N4148 AUTO 52MM	
Q201	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)		R101	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J	
Q202	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)		R103	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J	
Q203	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)		R105	RD-AZ470J-	R CARBON FILM	1/6 47 OHM J	
Q204	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)		R106	RD-AZ470J-	R CARBON FILM	1/6 47 OHM J	
Q205	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)		R107	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
Q301	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)		R108	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
Q309	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)		R110	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
Q310	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)		R116	RD-4Z751J-	R CARBON FILM	1/4 750 OHM J	
Q601	TZTA1273Y-	TR	KTA1273Y(966Y)		R117	RD-4Z751J-	R CARBON FILM	1/4 750 OHM J	
Q602	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)		R118	RD-4Z751J-	R CARBON FILM	1/4 750 OHM J	
Q603	TZTC3205Y-	TR	KTC3205Y (2236Y)		R119	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
Z0013	PVMPJAE621	PCB MAIN AXIAL AS	DW-Q73D2D-HA		R120	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
D101	DZN4148 -	DIODE	1N4148 AUTO 52MM		R121	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
D102	DZN4148 -	DIODE	1N4148 AUTO 52MM		R124	RD-AZ201J-	R CARBON FILM	1/6 200 OHM J	
D103	DZN4148 -	DIODE	1N4148 AUTO 52MM		R126	RD-AZ512J-	R CARBON FILM	1/6 5.1K OHM J	
D104	DZN4148 -	DIODE	1N4148 AUTO 52MM		R127	RD-AZ512J-	R CARBON FILM	1/6 5.1K OHM J	
D105	DZUZ13BSB-	DIODE ZENER	UZ-13BSB(12.59-13.16V)		R131	RD-AZ512J-	R CARBON FILM	1/6 5.1K OHM J	
D106	DZUZ13BSB-	DIODE ZENER	UZ-13BSB(12.59-13.16V)		R132	RD-AZ512J-	R CARBON FILM	1/6 5.1K OHM J	
D107	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R134	RD-AZ273J-	R CARBON FILM	1/6 27K OHM J	
D108	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R136	RD-AZ204J-	R CARBON FILM	1/6 200K OHM J	
D109	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R139	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
D110	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R142	RD-4Z751J-	R CARBON FILM	1/4 750 OHM J	
D111	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R143	RD-4Z751J-	R CARBON FILM	1/4 750 OHM J	
D112	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R144	RD-4Z751J-	R CARBON FILM	1/4 750 OHM J	
D113	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R201	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
D114	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R203	RD-AZ151J-	R CARBON FILM	1/6 150 OHM J	
D115	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R204	RD-AZ151J-	R CARBON FILM	1/6 150 OHM J	
D116	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R205	RD-AZ151J-	R CARBON FILM	1/6 150 OHM J	
D117	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R206	RD-AZ151J-	R CARBON FILM	1/6 150 OHM J	
D118	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R207	RD-AZ151J-	R CARBON FILM	1/6 150 OHM J	
D119	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R208	RD-AZ151J-	R CARBON FILM	1/6 150 OHM J	
D120	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R209	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
D121	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R212	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J	
D122	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R219	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	
D123	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R223	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
D124	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R224	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
D125	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R225	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J	
D126	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R227	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
D127	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R233	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
D128	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R234	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
D129	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R241	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
D130	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)		R242	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	

## ELECTRICAL PARTSLIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK	LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
R243	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		JP034	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R246	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		JP035	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R332	RD-AZ821J-	R CARBON FILM	1/6 820 OHM J		JP036	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R334	RD-AZ562J-	R CARBON FILM	1/6 5.6K OHM J		JP037	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R337	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		JP038	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R338	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		JP039	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R601	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J		JP040	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R603	RD-AZ202J-	R CARBON FILM	1/6 2K OHM J		JP041	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R604	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		JP042	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R605	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J		JP043	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R610	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J		JP044	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R612	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J		JP045	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R615	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J		JP046	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R619	RD-AZ331J-	R CARBON FILM	1/6 330 OHM J		JP047	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R620	RD-AZ331J-	R CARBON FILM	1/6 330 OHM J		JP048	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R622	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		JP049	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R623	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J		JP050	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R624	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J		JP051	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R625	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J		JP052	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R626	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		JP053	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
U001	97P65480MA	PCB MAIN	247X246X1.6T/2 D1B		JP054	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
Z0014	PVMPJVE621	PCB MAIN JUMP ONLY AS	DW-Q73D2D-HA		JP055	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP001	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP056	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP002	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP057	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP003	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP058	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP004	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP059	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP005	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP060	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP006	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP061	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP007	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP062	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP008	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP063	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP009	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP064	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP010	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP065	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP011	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP066	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP012	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP067	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP013	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP068	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP014	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP069	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP015	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP070	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP016	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP071	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP017	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP072	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP018	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP073	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP019	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP074	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP020	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP075	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP021	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP076	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP022	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP077	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP023	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP078	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP024	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP079	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP025	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP080	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP026	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP081	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP027	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP082	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP028	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		Z003	PVLAMSE621	PCB LOGIC MANUAL AS	D-Q73D2D-HA	
JP029	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		AL01	2193100801	SOLDER WIRE	SN-PB=63:37 3P(NO FLUX)	
JP030	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		AL02	2193011100	SOLDER WIRE	60 SNA 1.2D	
JP031	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		AL03	2291050305	FLUX LIQUID	RF-800KN	
JP032	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		AL04	2291050306	FLUX THINNER	RF-800ADD	
JP033	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		AL05	2291140501	WAX COVER		



## ELECTRICAL PARTSLIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK	LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
CU101	97P4220000	CUSHION LEG	EVA T=2.0		JP714	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
G701	DEB83D1N	LED DISPLAY	EB83D1N-F425-2SRVYWB		JP715	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
H701	10RC356VF4	IC UNIT R/RECEIVER	ORC-356VF4(38KHZ)		JP716	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
IC701	1PT6961 -	IC DRIVER	P76961 32P.M SOP		JP717	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JK701	97P6316800	JACK PIN	DPSE-9966		JP718	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JK702	97P62S09F4	CONN WAFER	RV-ST4D-F16N-D16 4P(1394 ST-DP)		R701	RD-AZ513J-	R CARBON FILM	1/6 51K OHM J	
P702	97P62G08E5	CONN FFC	GF102-05S-TS 05P ST		R702	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
PJ701	97P885X253	CONN AS	6H-6S 230MM		R703	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
PJ703	97P885X255	CONN AS	6H-6S 180MM		R704	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
PJ704	97P885X256	CONN AS	2S-2S 190MM		R705	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
Z0032	PVLAJRE621	PCB LOGIC RADIAL AS	D-Q73D2D-HA		R707	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
C701	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP		R711	RD-AZ432J-	R CARBON FILM	1/6 4.3K OHM J	
C702	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)		R712	RD-AZ432J-	R CARBON FILM	1/6 4.3K OHM J	
C703	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		R713	RD-AZ432J-	R CARBON FILM	1/6 4.3K OHM J	
C704	CMXM2A102J	C MYLAR	100V 1000PF J (TP)		U001	97P65479FA	PCB FRONT	247X198/5 D1B	
C705	CMXM2A102J	C MYLAR	100V 1000PF J (TP)		Z004	PVMGMSVT04	PCB MPEG MANUAL AS	D-Q73D2D-HA	
C706	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)		AG02	2193011100	SOLDER WIRE	60 SNA 1.2D	
L701	5CPX229J2T	COIL PEAKING	2.2UH(RED -)		PC01	97P62A09A8	CONN WAFER	440052-8 PLUG 8P 2.5	
L702	5CPX229J2T	COIL PEAKING	2.2UH(RED -)		PC02	97P62G08ER	CONN FFC	GF102-25S-TS 25P ST	
L703	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)		PC03	97P62G08E5	CONN FFC	GF102-05S-TS 05P ST	
SW701	5S50101Z97	SW TACT	THVV952GBA 9.5M AUTO		PC03A	97P62G08E5	CONN FFC	GF102-05S-TS 05P ST	
SW702	5S50101Z97	SW TACT	THVV952GBA 9.5M AUTO		PD01	97P62A23B6	CONN WAFER	440054-6 ST PLUG 6P	
SW703	5S50101Z97	SW TACT	THVV952GBA 9.5M AUTO		PF01	97P62A23B4	CONN WAFER	440054-4 ST PLUG 4P	
SW704	5S50101Z97	SW TACT	THVV952GBA 9.5M AUTO		PF02	97P62G08E5	CONN FFC	GF102-05S-TS 05P ST	
SW705	5S50101Z97	SW TACT	THVV952GBA 9.5M AUTO		PF05	97P62G08EH	CONN FFC	GF102-17S-TS 17P ST	
SW706	5S50101Z97	SW TACT	THVV952GBA 9.5M AUTO		PN01	97P62A23B4	CONN WAFER	440054-4 ST PLUG 4P	
SW707	5S50101Z97	SW TACT	THVV952GBA 9.5M AUTO		XD01	5XJ24R57AE	CRYSTAL QUARTZ	HC-49S 24.576000MHZ 30PP	
SW708	5S50101Z97	SW TACT	THVV952GBA 9.5M AUTO		XN01	5XJ27R00AC	CRYSTAL QUARTZ	HC-49S 27.000MHZ 15PF 20PPM	
SW709	5S50101Z97	SW TACT	THVV952GBA 9.5M AUTO		XN02	5XZR03276G	CRYSTAL QUARTZ	SO-26 32.768000KHZ 10PPM	
Z0033	PVLAJAE621	PCB LOGIC AXIAL AS	D-Q73D2D-HA		Z0041	PVMGJ2VT04	PCB MPEG CHIP TOP AS	D-Q73D2D-HA	
D701	DZN4148 -	DIODE	1N4148 AUTO 52MM		AMA1	2193220007	SOLDER CLEAM	RMA9154 63SN/37PB,#325	
D702	DZN4148 -	DIODE	1N4148 AUTO 52MM		CA02	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
D703	DZN4148 -	DIODE	1N4148 AUTO 52MM		CA03	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
D704	DZN4148 -	DIODE	1N4148 AUTO 52MM		CA04	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
D705	DZN4148 -	DIODE	1N4148 AUTO 52MM		CA07	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
D706	DZUZ5R1BSB	DIODE ZENER	UZ-5.1BSB(4.97-5.18V)		CA09	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
D707	DZN4148 -	DIODE	1N4148 AUTO 52MM		CA10	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
D708	DZUZ5R1BSB	DIODE ZENER	UZ-5.1BSB(4.97-5.18V)		CA12	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
D709	DZN4148 -	DIODE	1N4148 AUTO 52MM		CA21	HCBK182KBA	C CHIP CERA	X7R 50V 1800PF K 1608	
D710	DZUZ5R1BSB	DIODE ZENER	UZ-5.1BSB(4.97-5.18V)		CA22	HCBK182KBA	C CHIP CERA	X7R 50V 1800PF K 1608	
D712	DZN4148 -	DIODE	1N4148 AUTO 52MM		CC06	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
D713	DZN4148 -	DIODE	1N4148 AUTO 52MM		CC08	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
JP701	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		CC10	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
JP702	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		CC12	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
JP703	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		CC13	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
JP704	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		CC14	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
JP705	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		CC15	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
JP706	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		CC19	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
JP707	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		CC20	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
JP708	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		CC21	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
JP709	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		CC22	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
JP710	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		CC26	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
JP711	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		CC27	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
JP712	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		CC31	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
JP713	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		CC51	HCBK473KBA	C CHIP CERA	50V X7R 0.047MF K 1608	



## ELECTRICAL PARTSLIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK	LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
CM40	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN50	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM41	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN51	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM42	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN52	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM43	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN53	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM44	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN57	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM45	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN58	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM48	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN59	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM49	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS01	HCFH105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608	
CM50	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS02	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM52	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS03	HCBF225KCA	C CHIP CERA	16V X7R 2.2MF K 2012	
CM53	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS04	HCBF225KCA	C CHIP CERA	16V X7R 2.2MF K 2012	
CM54	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS05	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM55	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS06	HCBF225KCA	C CHIP CERA	16V X7R 2.2MF K 2012	
CM56	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS07	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM57	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		CS11	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM58	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608		CS12	HCBK153KBA	C CHIP CERA	50V X7R 0.015MF K 1608	
CM59	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS13	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM60	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS14	HCBK152KBA	C CHIP CERA	50V X7R 1500PF K 1608	
CM61	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		CS15	HCBK152KBA	C CHIP CERA	50V X7R 1500PF K 1608	
CM62	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608		CS16	HCBK152KBA	C CHIP CERA	50V X7R 1500PF K 1608	
CN02	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS17	HCBK152KBA	C CHIP CERA	50V X7R 1500PF K 1608	
CN04	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS18	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN05	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS19	HCFH105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608	
CN07	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS20	HCFH105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608	
CN09	HCFH105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608		CS21	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN12	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS22	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN14	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS23	HCBK332KBA	C CHIP CERA	50V X7R 3300PF K 1608	
CN15	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS24	HCBK332KBA	C CHIP CERA	50V X7R 3300PF K 1608	
CN17	HCQK200JBA	C CHIP CERA	50V CH 20PF J 1608		CS25	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN18	HCQK200JBA	C CHIP CERA	50V CH 20PF J 1608		CS27	HCBK332KBA	C CHIP CERA	50V X7R 3300PF K 1608	
CN19	HCQK300JBA	C CHIP CERA	50V CH 30PF J 1608		CS28	HCBK473KBA	C CHIP CERA	50V X7R 0.047MF K 1608	
CN20	HCQK300JBA	C CHIP CERA	50V CH 30PF J 1608		CS29	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN21	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS30	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN22	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS31	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN26	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS32	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN27	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS33	HCBK153KBA	C CHIP CERA	50V X7R 0.015MF K 1608	
CN30	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS34	HCBK153KBA	C CHIP CERA	50V X7R 0.015MF K 1608	
CN31	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS35	HCBK153KBA	C CHIP CERA	50V X7R 0.015MF K 1608	
CN32	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS36	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN34	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS37	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN35	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS38	HCFH105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608	
CN36	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS39	HCFH105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608	
CN37	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS40	HCFH105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608	
CN38	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS41	HCFH105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608	
CN39	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS42	HCFH105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608	
CN40	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS43	HCQK471JBA	C CHIP CERA	50V CH 470PF J 1608	
CN41	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS44	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN42	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS46	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN43	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS47	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN44	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS48	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
CN45	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS49	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN46	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS50	HCBK682KBA	C CHIP CERA	50V X7R 6800PF K 1608	
CN47	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS51	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CN48	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS52	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CN49	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS53	HCBK333KBA	C CHIP CERA	50V X7R 0.033MF K 1608	

# ELECTRICAL PARTSLIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK	LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
CS54	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC01	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS55	HCBK153KBA	C CHIP CERA	50V X7R 0.015MF K 1608		LC02	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS56	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC03	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS57	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC04	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS58	HCBF225KCA	C CHIP CERA	16V X7R 2.2MF K 2012		LC05	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS59	HCBF225KCA	C CHIP CERA	16V X7R 2.2MF K 2012		LC06	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS60	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC07	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS61	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LD01	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS62	HCBF225KCA	C CHIP CERA	16V X7R 2.2MF K 2012		LD02	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS63	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LF01	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS71	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		LF02	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS72	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		LF03	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS73	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		LF04	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS74	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LF05	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS75	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LM01	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS77	HCBF225KCA	C CHIP CERA	16V X7R 2.2MF K 2012		LN01	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS78	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LN02	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS79	HRFS000-BA	R CHIP	1/16 0 OHM 1608		LN03	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS80	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LN04	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS81	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LN05	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS82	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LN06	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS83	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LN07	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS85	HCBF224KBA	C CHIP CERA	16V X7R 0.22MF K 1608		PF04	97P62Y3650	CONN FFC SMD	05003HR-50A01 RA 0.5 SMD	
CS86	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		RA01	HRFT519JCA	R CHIP	1/10 5.1 OHM J 2012	
CS90	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		RA02	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
CS91	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		RA06	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608	
CS92	HCFH105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608		RA07	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608	
CS93	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		RA08	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608	
CS94	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		RA09	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608	
CS95	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		RA11	HRFS122JBA	R CHIP	1/16 1.2K OHM J 1608	
CS96	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		RA12	HRFS911JBA	R CHIP	1/16 910 OHM J 1608	
CS97	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		RA13	HRFS122JBA	R CHIP	1/16 1.2K OHM J 1608	
CS98	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		RA14	HRFS911JBA	R CHIP	1/16 910 OHM J 1608	
DN01	DRLS4148-B	DIODE CHIP	RLS4148TE-11 3415		RA15	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
ICA01	1CS5340CZD	IC CHIP AUDIO ADC	CS5340-CZZR LEAD FREE 16PIN	SSOP	RA16	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
ICA02	1CS4344CZD	IC CHIP AUDIO ADC	CS4344-CZZR LEAD FREE 10PIN	SSOP	RA17	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
ICC02	1AP1117E25	IC CHIP REGULATOR	AP1117E25A 2.5V 2% SOT-223		RA18	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
ICC03	1AP1117D18	IC CHIP REGULATOR	AP1117D18A 1.8V 2% TO-252		RA19	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
ICD01	1TSB41ABTE	IC CHIP 1EEE1394	TSB41AB1PHPR 48PIN PQFP	TYPE REEL	RA20	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
ICF01	11818E -Q	IC CHIP DUAL OPTICAL CONTROL	MT1818E LQFP 216 PIN TRAY		RA21	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
ICF02	1ADS4616AQ	16M(1X16) SDRAM	ADS4616A4A-6 16M 166MHZ 50PIN TSOP	TRAY	RA22	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
ICF04	1MX26LV80Q	IC CHIP FLASH ROM	MX26LV800TTC-55 48PIN TSOP	TRAY	RA23	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608	
ICF06	11816E -Q	IC CHIP DVD DUAL REC RF	MT1816E LQFP 128PIN TRAY		RA24	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608	
ICF07	1AT93C66AD	IC CHIP EEPROM	AT93C66A-10SI-2.7 8SI 8PIN SOIC	REEL	RC57	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
ICF08	1BD7902CFG	IC CHIP 6CHANNEL DRIVER	BD7902CFS 54PIN HSSOP-A54		RC58	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608	
ICF09	1BA5962FVC	IC POWER CHIP DRIVER(FOR CD)	BA5962FVM 8PIN MSOP		RC59	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
ICF10	1AP1117E25	IC CHIP REGULATOR	AP1117E25A 2.5V 2% SOT-223		RC60	HRFS562JBA	R CHIP	1/16 5.6K OHM J 1608	
ICM01	1AD86165CQ	IC CHIP DDR SDRAM	AD8616A8A-5C 256MB(4MX16X4B) 200MHZ 66PIN TSOP-2		RC61	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
ICM02	1G2995F1UC	IC CHIP DDR REGULATOR	G2995F1U AV1N-PV1N-2.5V SOP-8L		RC62	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
ICM03	1160ATTC7Q	IC CHIP FLASH ROM	MX29LV160ATTC-70 48PIN TSOP		RC63	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
ICM04	124LC16BTC	IC CHIP EEPROM	24LC16BT-1SN 16K 8 PIN SOIC	REEL	RC64	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
ICN01	1MT8105GEO	IC CHIP MPEG CODEC	MT8105GE LQFP 256PIN TRAY		RC65	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
LA01	HRFT000-CA	R CHIP	1/10 0 OHM 2012		RC66	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
LA02	HRFT000-CA	R CHIP	1/10 0 OHM 2012		RC67	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
LA05	HRFT000-CA	R CHIP	1/10 0 OHM 2012		RC68	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	

## ELECTRICAL PARTSLIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK	LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
RC69	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		RF40	HRFS754JBA	R CHIP	1/16 750K OHM J 1608	
RC70	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		RF41	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RC71	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		RF42	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RC72	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		RF43	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RC99	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		RF47	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RD01	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RF48	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RD02	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		RF49	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RD03	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		RF50	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
RD04	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		RF51	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
RD05	HRT6341FBA	R CHIP	1/10 6.34K OHM F 1608		RF52	HRFT109JCA	R CHIP	1/10 1 OHM J 2012	
RD08	HRFS560JBA	R CHIP	1/16 56 OHM J 1608		RF53	HRFT109JCA	R CHIP	1/10 1 OHM J 2012	
RD09	HRFS560JBA	R CHIP	1/16 56 OHM J 1608		RF54	HRFT109JCA	R CHIP	1/10 1 OHM J 2012	
RD10	HRFS560JBA	R CHIP	1/16 56 OHM J 1608		RF55	HRFS104JBA	R CHIP	1/16 100K OHM J 1608	
RD11	HRFS560JBA	R CHIP	1/16 56 OHM J 1608		RF56	HRFS273JBA	R CHIP	1/16 27K OHM J 1608	
RD12	HRFS512JBA	R CHIP	1/16 5.1K OHM J 1608		RF57	HRFS273JBA	R CHIP	1/16 27K OHM J 1608	
RD13	HRTS8E103J	R CHIP ARRAY	1/16 8P 10K OHM J 3216		RF58	HRFT229JCA	R CHIP	1/10 2.2 OHM J 2012	
RD14	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RF59	HRFT229JCA	R CHIP	1/10 2.2 OHM J 2012	
RD15	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RF60	HRFT229JCA	R CHIP	1/10 2.2 OHM J 2012	
RF02	HRFS479JBA	R CHIP	1/16 4.7 OHM J 1608		RF61	HRFT229JCA	R CHIP	1/10 2.2 OHM J 2012	
RF03	HRFS183JBA	R CHIP	1/16 18K OHM J 1608		RF62	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RF04	HRFS104JBA	R CHIP	1/16 100K OHM J 1608		RF63	HRFS273JBA	R CHIP	1/16 27K OHM J 1608	
RF05	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RF64	HRFS273JBA	R CHIP	1/16 27K OHM J 1608	
RF06	HRFS479JBA	R CHIP	1/16 4.7 OHM J 1608		RF66	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RF07	HRFS820JBA	R CHIP	1/16 82 OHM J 1608		RF67	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RF08	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608		RF70	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RF09	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608		RFN3	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RF10	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608		RFN4	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RF11	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RFN5	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RF12	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RFN6	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RF13	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RFN7	HRTS8E820J	R CHIP ARRAY	1/16 8P 82 OHM 3216	
RF14	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RFN8	HRTS8E820J	R CHIP ARRAY	1/16 8P 82 OHM 3216	
RF15	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RFN9	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RF16	HRFS512JBA	R CHIP	1/16 5.1K OHM J 1608		RM01	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RF17	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RM02	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RF18	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RM03	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RF19	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RM04	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RF20	HRFS203JBA	R CHIP	1/16 20K OHM J 1608		RM05	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RF21	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RM06	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RF22	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RM07	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RF23	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RM08	HRFS330JBA	R CHIP	1/16 33 OHM J 1608	
RF24	HRFS822JBA	R CHIP	1/16 8.2K OHM J 1608		RM09	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RF25	HRFS330JBA	R CHIP	1/16 33 OHM J 1608		RM10	HRFS330JBA	R CHIP	1/16 33 OHM J 1608	
RF26	HRFS330JBA	R CHIP	1/16 33 OHM J 1608		RM11	HRFS330JBA	R CHIP	1/16 33 OHM J 1608	
RF27	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608		RM12	HRFS330JBA	R CHIP	1/16 33 OHM J 1608	
RF28	HRFS330JBA	R CHIP	1/16 33 OHM J 1608		RM13	HRFS330JBA	R CHIP	1/16 33 OHM J 1608	
RF30	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RM14	HRFS330JBA	R CHIP	1/16 33 OHM J 1608	
RF31	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RM15	HRFS330JBA	R CHIP	1/16 33 OHM J 1608	
RF32	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RM16	HRFS330JBA	R CHIP	1/16 33 OHM J 1608	
RF33	HRFS333JBA	R CHIP	1/16 33K OHM J 1608		RM17	HRFS330JBA	R CHIP	1/16 33 OHM J 1608	
RF34	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RM18	HRFS330JBA	R CHIP	1/16 33 OHM J 1608	
RF35	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RM20	HRTS8E750J	R CHIP ARRAY	1/16 75 OHM J 8PIN 3216	
RF36	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RM21	HRTS8E750J	R CHIP ARRAY	1/16 75 OHM J 8PIN 3216	
RF37	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RM22	HRTS8E750J	R CHIP ARRAY	1/16 75 OHM J 8PIN 3216	
RF38	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RM23	HRTS8E750J	R CHIP ARRAY	1/16 75 OHM J 8PIN 3216	
RF39	HRFS754JBA	R CHIP	1/16 750K OHM J 1608		RM24	HRTS8E750J	R CHIP ARRAY	1/16 75 OHM J 8PIN 3216	

# ELECTRICAL PARTSLIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK	LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
RM25	HRTS8E750J	R CHIP ARRAY	1/16 75 OHM J 8PIN 3216		CD10	CXEOJ221S	C ELECTRO	6.3V RSA 220MF 6.3X7	
RM26	HRTS8E750J	R CHIP ARRAY	1/16 75 OHM J 8PIN 3216		CD17	CXEOJ221S	C ELECTRO	6.3V RSA 220MF 6.3X7	
RM27	HRTS8E750J	R CHIP ARRAY	1/16 75 OHM J 8PIN 3216		CF06	CXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
RM28	HRFS750JBA	R CHIP	1/16 75 OHM J 1608		CF07	CXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
RM29	HRFS750JBA	R CHIP	1/16 75 OHM J 1608		CF08	CXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
RM30	HRFS750JBA	R CHIP	1/16 75 OHM J 1608		CF09	CXE1C101E	C ELECTRO	16V RM 100MF 5X11	
RM31	HRFS750JBA	R CHIP	1/16 75 OHM J 1608		CF10	CXEOJ221S	C ELECTRO	6.3V RSA 220MF 6.3X7	
RM32	HRFS750JBA	R CHIP	1/16 75 OHM J 1608		CF11	CXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
RM33	HRFS750JBA	R CHIP	1/16 75 OHM J 1608		CF71	CXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RM35	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		CM06	CXEOJ221S	C ELECTRO	6.3V RSA 220MF 6.3X7	
RM36	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		CM07	CXEOJ221S	C ELECTRO	6.3V RSA 220MF 6.3X7	
RM37	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		CM24	CXEOJ221S	C ELECTRO	6.3V RSA 220MF 6.3X7	
RM38	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		CM46	CXEOJ221S	C ELECTRO	6.3V RSA 220MF 6.3X7	
RM39	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		CM47	CXEOJ221S	C ELECTRO	6.3V RSA 220MF 6.3X7	
RM40	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		CM51	CXEOJ221S	C ELECTRO	6.3V RSA 220MF 6.3X7	
RM41	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		CM63	CXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RN01	HRFS479JBA	R CHIP	1/16 4.7 OHM J 1608		CN01	CXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RN04	HRFS100JBA	R CHIP	1/16W 10 OHM J 1608		CN03	CXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RN06	HRFS479JBA	R CHIP	1/16 4.7 OHM J 1608		CN06	CXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RN07	HRFS479JBA	R CHIP	1/16 4.7 OHM J 1608		CN10	CXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RN08	HRFS222FBA	R CHIP	1/16 2.2K F 1608		CN11	CXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RN09	HRFS104JBA	R CHIP	1/16 100K OHM J 1608		CN13	CXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RN10	HRFS335JBA	R CHIP	1/16 3.3M OHM J 1608		CN16	CXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RN12	HRTS8E103J	R CHIP ARRAY	1/16 8P 10K OHM J 3216		CN23	CXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RN14	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		CN24	CXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RN21	HRFS000-BA	R CHIP	1/16 0 OHM 1608		CN25	CXEOJ221S	C ELECTRO	6.3V RSA 220MF 6.3X7	
RN22	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		CN28	CXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RN23	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		CN29	CXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RN25	HRFS000-BA	R CHIP	1/16 0 OHM 1608		CN33	CXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
RN26	HRFS000-BA	R CHIP	1/16 0 OHM 1608		CN56	CXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
RN30	HRFS510JBA	R CHIP	1/16 51 OHM J 1608		CS45	CXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
XF01	5XJ33R8SUF	CRYSTAL QUARTZ	SX/T 33.86880MHZ 50PPM		CS64	CXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
Z0042	PVMGJRV700	PCB MPEG RADIAL AS	R, MTK, SONY		CS76	CXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
CA01	CXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		CS87	CXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
CA05	CXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP		CS99	CXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
CA06	CXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		LA03	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	
CA08	CXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		UL01	97P65471DA	PCB DVD	308X167X2	
CA11	CXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		Z008	PVPMSE621	PCB POWER MANUAL AS	D-Q73D2D-HA	
CA13	CXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		AP01	2193100801	SOLDER WIRE	SN-PB-63:37 3P(NO FLUX)	
CA14	CXF1C100A	C ELECTRO	16V RSM 10MF 5X7		AP02	2193011100	SOLDER WIRE	60 SNA 1.2D	
CA16	CXF1C100A	C ELECTRO	16V RSM 10MF 5X7		AP03	2291050305	FLUX LIQUID	RF-800KN	
CA17	CXF1C100A	C ELECTRO	16V RSM 10MF 5X7		AP04	2291050306	FLUX THINNER	RF-800ADD	
CC07	CXEOJ221S	C ELECTRO	6.3V RSA 220MF 6.3X7		AP05	2291140501	WAX COVER		
CC09	CXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		C801	CL2EE3104M	C LINE ACROSS	AC 275V 0.1MF M PCX2 335M	
CC11	CXF1C220A	C ELECTRO	16V RSM 22MF (5X7)		C802	CH1TFE222M	C CERA AC	4.0KV 2200PF M AD AC250V	
CC16	CXEOJ221S	C ELECTRO	6.3V RSA 220MF 6.3X7		C803	CH1TFE222M	C CERA AC	4.0KV 2200PF M AD AC250V	
CC17	CXEOJ221S	C ELECTRO	6.3V RSA 220MF 6.3X7		C804	CH1TFE332M	C CERA AC	4.0KV 3300PF M AD AC250V	
CC18	CXEOJ221S	C ELECTRO	6.3V RSA 220MF 6.3X7		C805	CH1TFE222M	C CERA AC	4.0KV 2200PF M AD AC250V	
CC23	CXEOJ221S	C ELECTRO	6.3V RSA 220MF 6.3X7		C806	CXF2E680V	C ELECTRO	250V RSS 68MF 16X25(SG)	
CC24	CXEOJ221S	C ELECTRO	6.3V RSA 220MF 6.3X7		C811	CL2EE3104M	C LINE ACROSS	AC 275V 0.1MF M PCX2 335M	
CC25	CXEOJ221S	C ELECTRO	6.3V RSA 220MF 6.3X7		C821	CXK1C102L	C ELECTRO	16V RDF(KXL) 1000UF 10X20	
CC28	CXEOJ221S	C ELECTRO	6.3V RSA 220MF 6.3X7		C822	CXK1C102L	C ELECTRO	16V RDF(KXL) 1000UF 10X20	
CC29	CXEOJ221S	C ELECTRO	6.3V RSA 220MF 6.3X7		C824	CXK1C681L	C ELECTRO	16V 680UF XXL	
CC30	CXEOJ221S	C ELECTRO	6.3V RSA 220MF 6.3X7		D821	D S R 3 0 3	DIODE SCHOTTKY	SR303	
CC32	CXE1C101E	C ELECTRO	16V RM 100MF 5X11		D824	D S F 2 4 G	DIODE	SF24G	
CC33	CXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP		IC801	1LTV817MDW	IC PHOTO COUPLER	LVT-817M-DW	

## ELECTRICAL PARTSLIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK	LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
IC802	1FSDM0565P	IC POWER SWITCH	FSDM0565RYDTU 70KHZ TO-220F	6L(F/M)	D806	DZN4005S	DIODE	IN4005S 1A 600V	
L801	5PLF2055	FILTER LINE	LF-2055		D807	DZN4005S	DIODE	IN4005S 1A 600V	
P801	97P62Y04X4	CONN WAFER	YW396 4P NC		D808	DZN4005S	DIODE	IN4005S 1A 600V	
P821	97P62A09A7	CONN WAFER	440052-7 PLUG 7P 2.5		D809	DZN4005S	DIODE	IN4005S 1A 600V	
PJ822	97P885X254	CONN AS	8H-8S 350MM		D824	DZ1F3E	DIODE FR	1F3E	
Q822	TFQP20N06-	FET	FQP20N06		D826	DZ1F3E	DIODE FR	1F3E	
R806	RS02F473JS	R M-OXIDE FILM	2W 47K OHM J SMALL		D827	DZN4003 -	DIODE	IN4003	
T801	57M8282470	TRANS SMPS	TSW-Q74D2N		D828	DZN4003 -	DIODE	IN4003	
VA801	D1NR10D471	VARISTOR	1NR10D471		D829	DZUZ3R9BSB	DIODE ZENER	UZ-3.9BSB(3.92-4.14)	
VA802	D1NR10D471	VARISTOR	1NR10D471		D830	DZUZ13BSB-	DIODE ZENER	UZ-13BSB(12.59-13.16V)	
Z8012	PVPJRE621	PCB POWER RADIAL AS	D-Q73D2D-HA		D831	DZN4003 -	DIODE	IN4003	
C807	CMXL2G103K	C MYLAR	400V MEU 0.01MF K		JP801	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C808	CEXF1H220V	C ELECTRO	50V RSS 22MF (5X11) TP		JP802	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C809	CMXM2A183J	C MYLAR	100V 0.018MF J (TP)		JP803	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C810	CBXB3A101K	C CERA SEMI	1KV RR 100PF K		JP804	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C823	CEXF1A221V	C ELECTRO	10V RSS 220MF		JP805	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C826	CEXF1H470V	C ELECTRO	50V RSS 47MF (6.3X11) TP		JP821	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C827	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		JP822	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C828	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		JP823	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C830	CEXF1A221V	C ELECTRO	10V RSS 220MF		JP824	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C831	CEXF1A221V	C ELECTRO	10V RSS 220MF		JP825	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C832	CEXF1A221V	C ELECTRO	10V RSS 220MF		JP826	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C833	CEXF1E221V	C ELECTRO	25V RSS 220MF (8X11.5) TP		JP827	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C834	CMXM2A473J	C MYLAR	100V 0.047MF J (TP)		JP828	85801060TA	WIRE COPPER	0.6X52MM TAPING	
F801	5FWPS2022L	FUSE	WIDE TL 250V 2A CASE		JP829	85801060TA	WIRE COPPER	0.6X52MM TAPING	
IC803	1KA431AZ	IC REGULATOR	KA431AZ 1% TO-92		JP831	85801060TA	WIRE COPPER	0.6X52MM TAPING	
L821	56C220K686	COIL CHOKE	22UH K 27.5X0.4D		R801	RC-22335KP	R CARBON COMP	1/2 3.3M OHM K	
L822	56C220K686	COIL CHOKE	22UH K 27.5X0.4D		R803	RD-4Z333J-	R CARBON FILM	1/4 33K OHM J	
L823	56C220K686	COIL CHOKE	22UH K 27.5X0.4D		R804	RD-4Z473J-	R CARBON FILM	1/4 47K OHM J	
L824	56C220K686	COIL CHOKE	22UH K 27.5X0.4D		R805	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J	
Q821	TZTC3205Y-	TR	KTC3205Y (2236V)		R821	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
Q822	TZTC3205Y-	TR	KTC3205Y (2236V)		R822	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
Q823	TZTC3205Y-	TR	KTC3205Y (2236V)		R823	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
Q826	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815V) (AUTO)		R824	85801060TA	WIRE COPPER	0.6X52MM TAPING	
Q827	TZTC3203Y-	TR	KTC3203Y (2120V)		R825	RN-AZ132F-	R METAL FILM	1/6 1.3K OHM F	
Z8013	PVPJAE621	POWER AXIAL AUTO AS	D-Q73D2D-HA		R826	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
AP31	2TM14006LB	TAPE MASKING	3M #232 6.0X2000M		R827	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
AP31A	2TM110620R	TAPE MASKING	SI-600N RED		R828	RD-4Z622J-	R CARBON FILM	1/4 6.2K OHM J	
AP31B	2TM1106200	TAPE MASKING	SI-600N		R829	RD-4Z622J-	R CARBON FILM	1/4 6.2K OHM J	
D802	DZEG01C -	DIODE	EG01C		R830	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
D803	DZ1F3E	DIODE FR	1F3E		R832	97P65493PA	R METAL FILM	1/6 510 OHM F	
D804	DZUZ68BSC	DIODE ZENER	UZ-6.8BSC(6.70-6.97)		U800	97P65471PA	PCB POWER	324X199X1.6T/4	